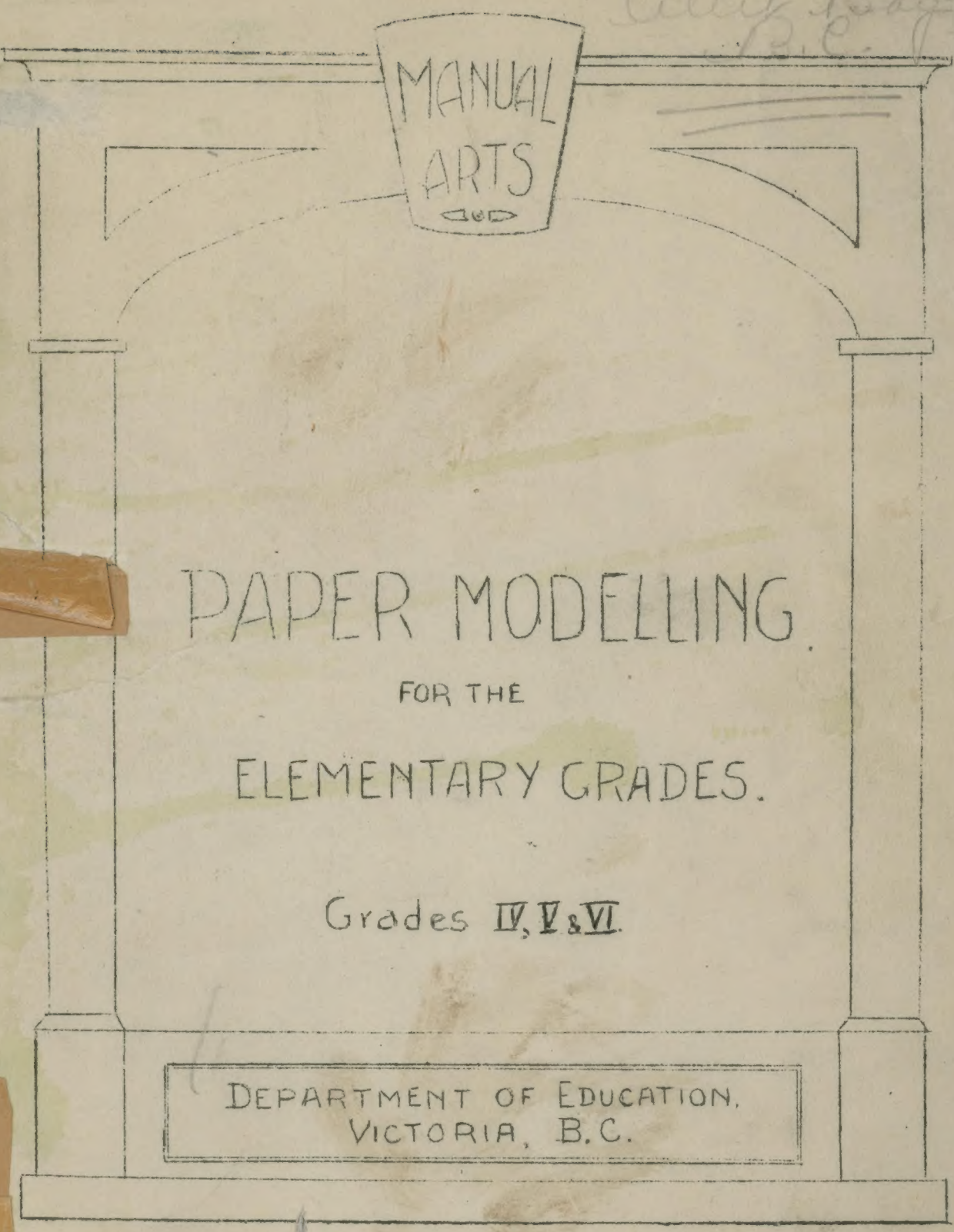


*Maquay Branch
St. Michael's
Colony Bay
B.C.*



MANUAL
ARTS

PAPER MODELLING.

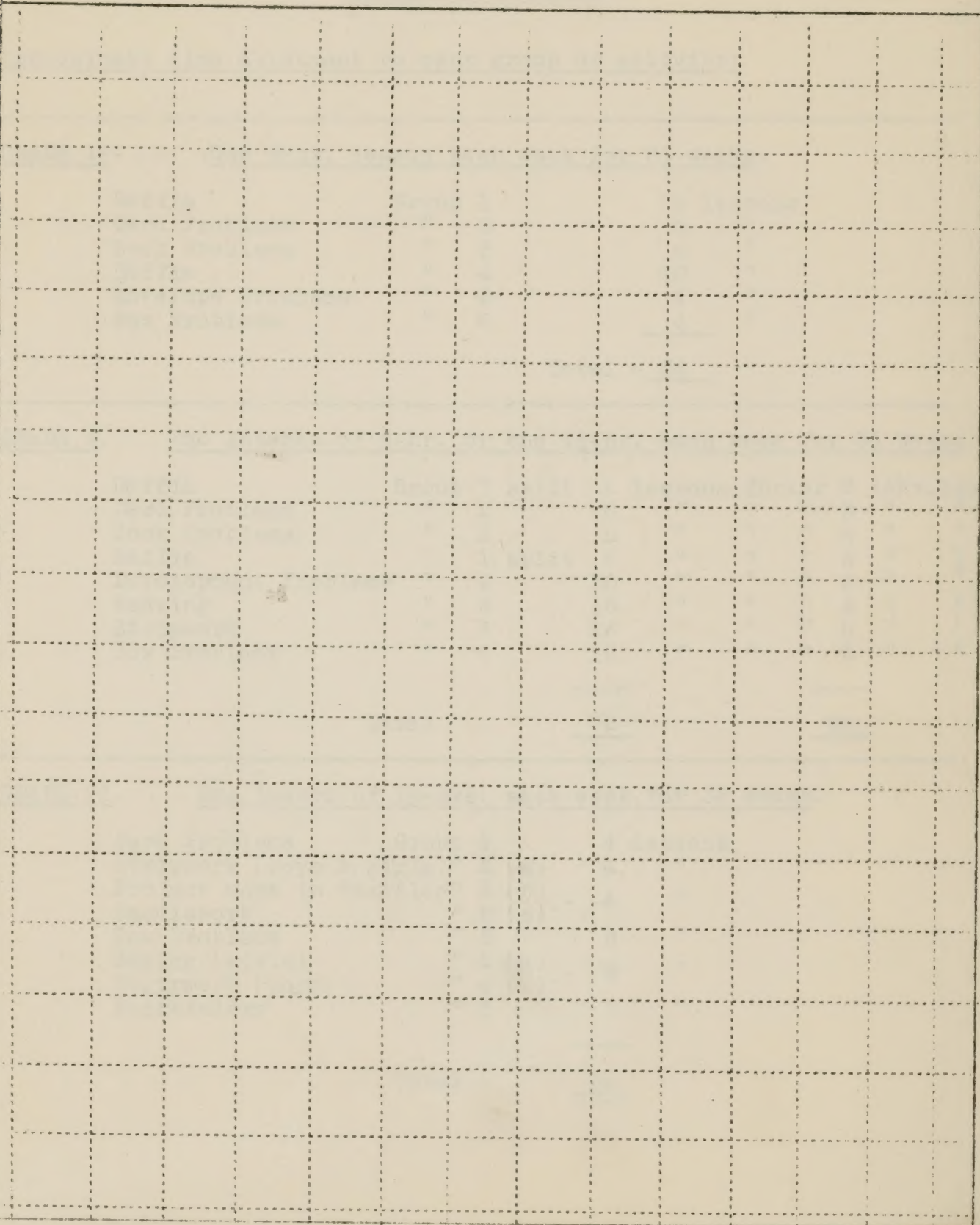
FOR THE

ELEMENTARY GRADES.

Grades IV, V & VI.

DEPARTMENT OF EDUCATION,
VICTORIA, B.C.

Sample of $\frac{1}{2}$ " squared Drawing Paper for Stripwork.



MANUAL ARTS

Grades IV. V. & VI.

Approximate time allotment to each group of Activity:

GRADE IV. - One $\frac{3}{4}$ -hr. lesson each week for 36 weeks.

Raffia	Group 1	6 lessons
Card Problems	" 2	4 "
Book Problems	" 3	6 "
Raffia	" 4	10 "
Envelope Problems	" 5	4 "
Box Problems	" 6	6 "

Total - 36

GRADE V. Two lessons of $\frac{3}{4}$ -hr. or one $1\frac{1}{2}$ -hr. each week for 36 weeks.

Raffia	Group 1 split	6 lessons	$\frac{3}{4}$ hr. or 3	$1\frac{1}{2}$ hr. less
Card Problems	" 2	6	" 3	" "
Book Problems	" 3	8	" 4	" "
Raffia	" 1 split	6	" 3	" "
Development Problems	" 4	10	" 5	" "
Weaving	" 5	10	" 5	" "
Stripwork	" 7	16	" 8	" "
Box Problems	" 6	10	" 5	" "

Total - 72

36

GRADE VI. One lesson of $1\frac{1}{2}$ -hrs. each week for 36 weeks.

Card Problems	Group 1	4 lessons
Stripwork (boys & girls)	" 2 (a)	4 "
Project work in Textiles	" 2 (b)	- 4 "
Needlework	" 2 (c)	- 4 "
Box Problems	" 3	8 "
Sewing (girls)	" 4 (a)	- 9 "
Stripwork (boys)	" 4 (b)	- 9 "
Bookbinding	" 5	7 "

Total - 36

MANUAL ARTS

Group 1. Project 1.

GRADE IV.

NAPKIN RING

CLASS MATERIAL:

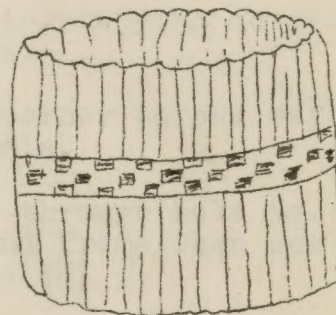
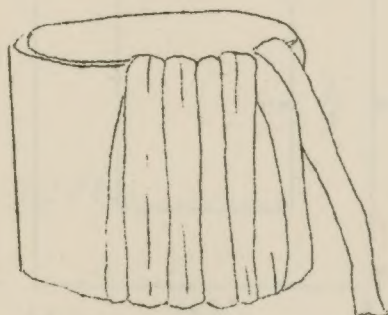
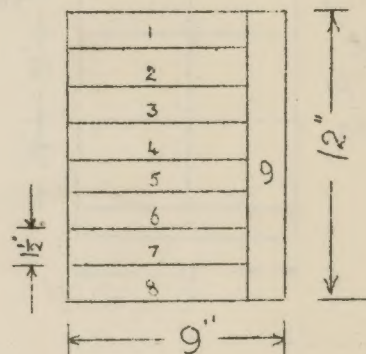
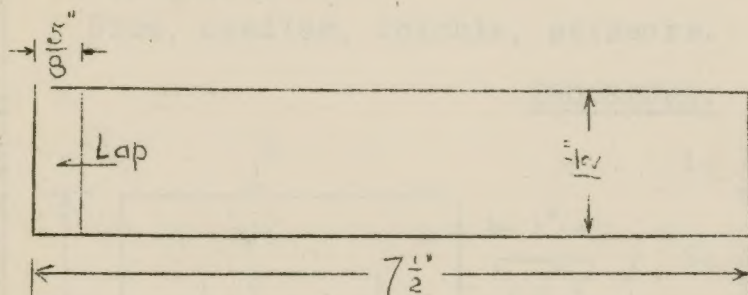
Light cardboard, $1\frac{1}{2}$ " x 8" or
 $1\frac{1}{2}$ " tube.

Raffia - plain and colored.

Pail of water.

Needles, glue.

Method of cutting from standard
sheet.



PROCEDURE:

1. Lap cardboard to form ring and sew with scrap raffia.
2. Flatten moist raffia and wrap as sketch - edges touching.
3. Wrap a second time, each strand lapping over half the last strand.
4. Fasten all ends with drop of glue.
5. Decorate simply with colored raffia or ribbon.

MANUAL ARTS

Group 1. Project 2.

GRADE IV.

PICTURE FRAME

CLASS MATERIAL.:

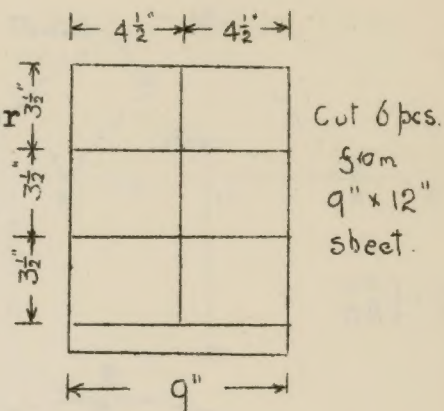
Pulpboard - rectangles $3\frac{1}{2}" \times 4\frac{1}{2}" - \frac{3}{4}"$ border

Pulpboard backs for above.

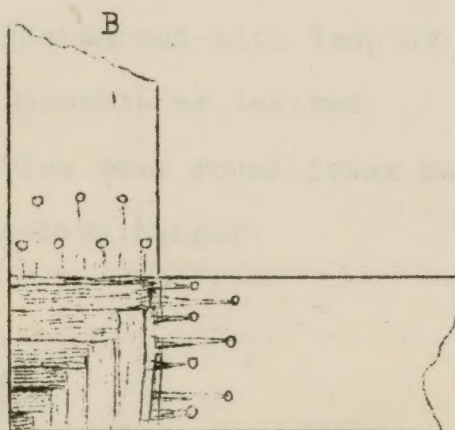
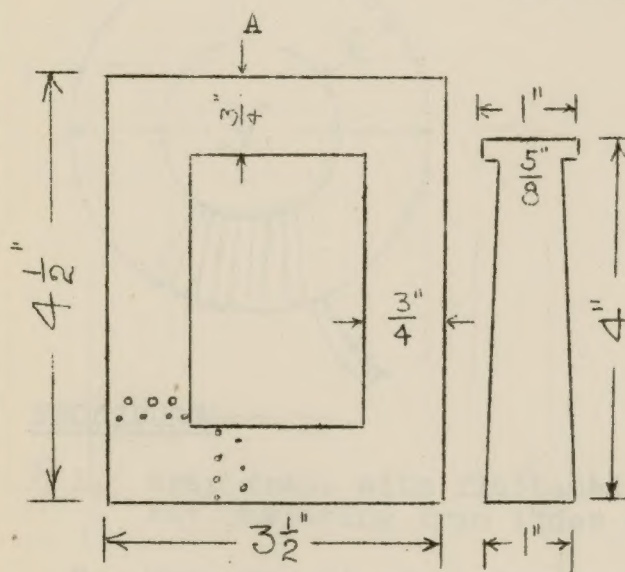
Pulpboard strips $1" \times 4"$.

Raffia.

Glue, needles, thimble, scissors.



PROCEDURE.



1. Punch holes in corners with needle $3/16"$ apart.
2. Flatten moist raffia between thumb and finger.
3. Begin wrapping in centre of side.
4. At corner thread raffia end in needle.
5. Sew through hole No. 1. Wrap round frame then sew through hole No. 2.
6. At corner hole No. 5 sew through 3 times in order to turn corner.
7. Wrap to next corner. Repeat.
8. In second wrapping omit corners.
9. Decorate at corners as desired.
10. Glue back on 3 sides and attach support.

MANUAL ARTS

Group 1. Project 3 A.
3 B.

GRADE IV.

PICTURE FRAMES

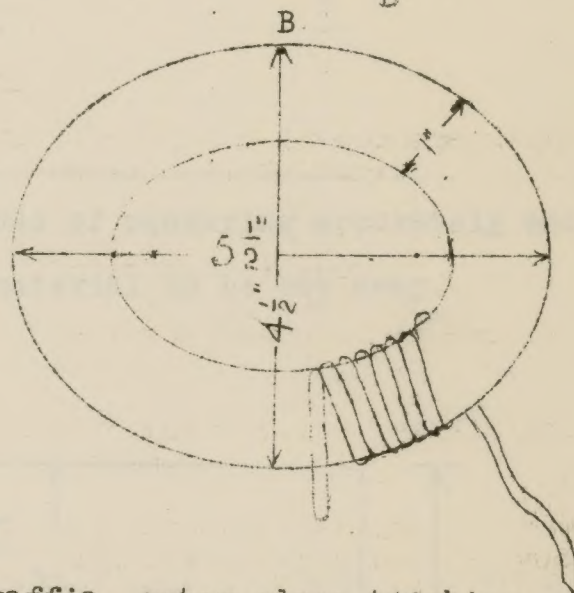
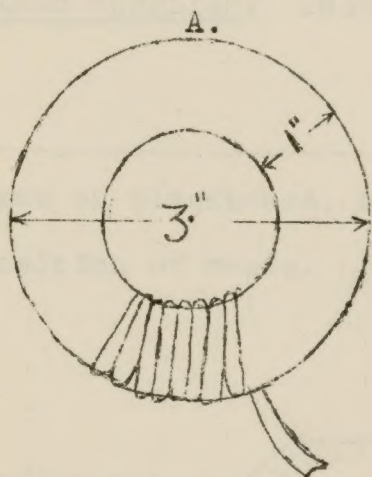
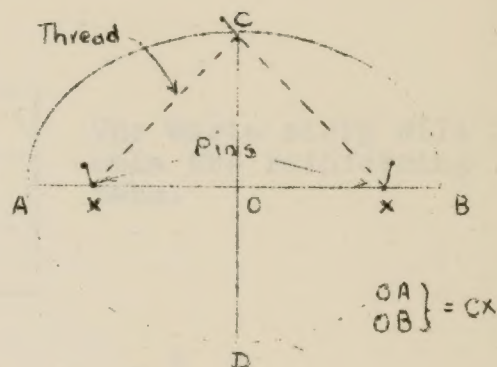
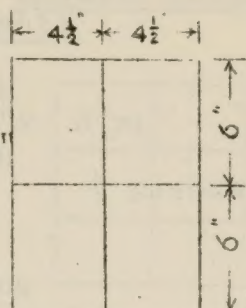
CLASS MATERIAL:

Pulpboard Circles 4"

Pulpboard Ovals 4½"x5½"

Pulpboard for backs

Raffia, glue.



PROCEDURE.

1. Wrap frame with flattened raffia, outer edges touching but radiating from inner curve.
2. Wrap second time, lapping strands half over.
3. Fasten end with drop of glue.
4. Decorate as desired.
5. Glue back round lower half and stick to frame.
6. Attach hanger.

MANUAL ARTS

Group 2. Project 1.

GRADE IV.

BAGGAGE LABEL.

MATERIAL. Pulpboard (light)

Pupil to be supplied with one piece of pulpboard 3"x4" cut previous to lesson from 9 x 12 stock.

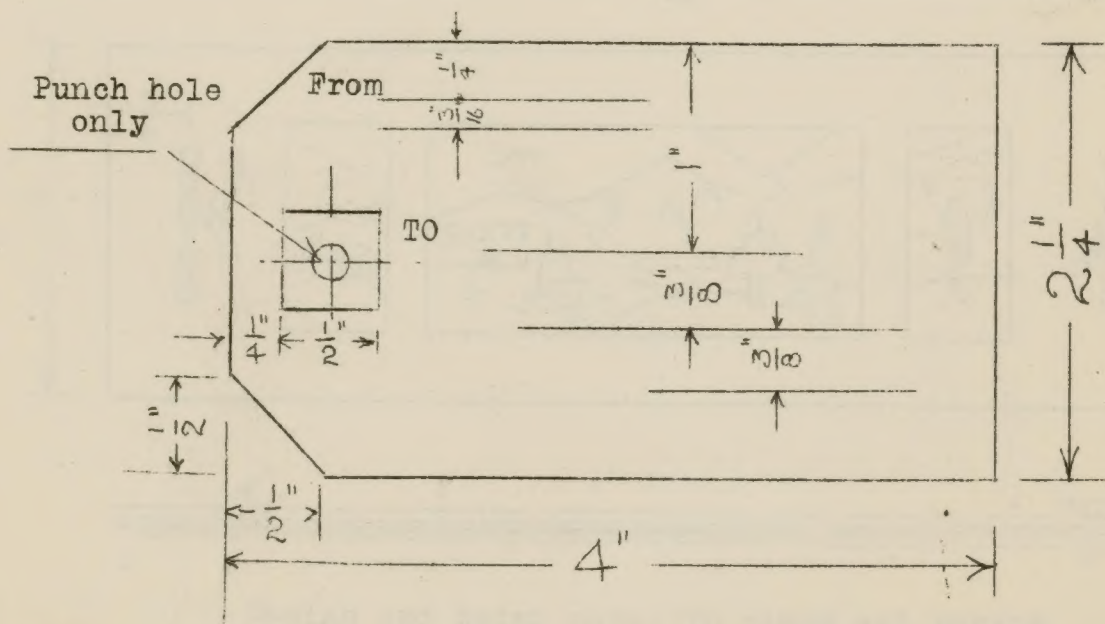
3"x4"	
9 pieces.	

The waste strip will make the reinforcing tabs.

PUPIL SUPPLIES: Rule, pencil, scissors, string 18", pulpboard.

CLASS SUPPLIES: Paste & brushes.

Draw on blackboard, showing methods of measuring accurately and position of waste. Shade waste material to be cut away.



Note.

Teacher should demonstrate each new operation clearly before the class.

MANUAL ARTS

Group 2. Project 2.

GRADE IV.

BLOTTER

MATERIAL:

Light Pulpboard 3" x 9".
Cover paper 3" x 9".
String.
Blotting paper (to be supplied by pupil)

9 x 12 pulpboard
& cover paper

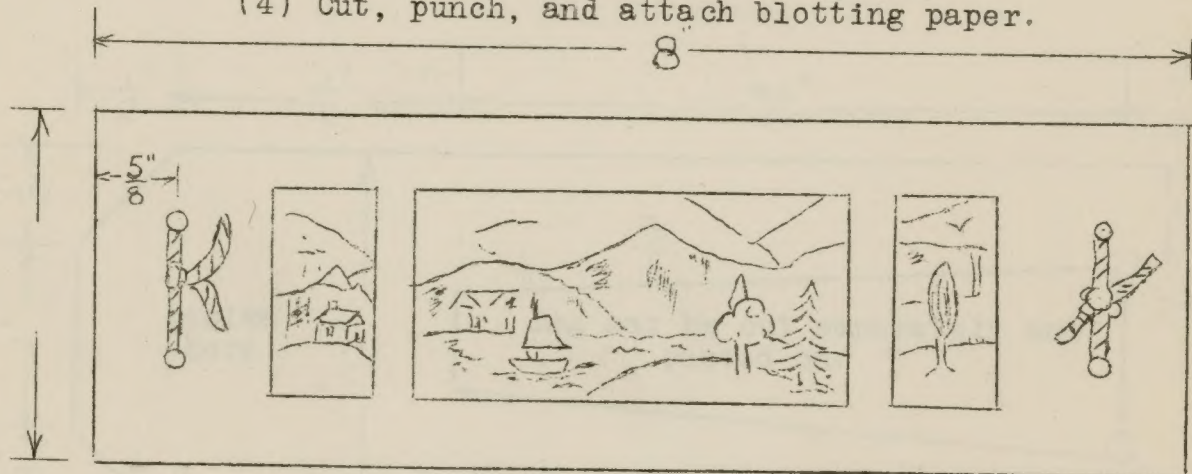
PUPIL SUPPLIES:

Rule & pencil. Scissors.
Pulpboard.
Cover Paper.
String 18" long.

CLASS SUPPLIES:

Paste Brushes & Paste.
Paper punches.
Old magazines or paper to paste on.

- PROCEDURE:
- (1) Mark out pulpboard and cut to shape.
 - (2) Paste cover and attach to board.
 - (3) Trim cover, mark holes and punch.
 - (4) Cut, punch, and attach blotting paper.



Design and paint cover in class art period.

MANUAL ARTS

Group 2. Project 3.

GRADE IV.

BOOK MARK

MATERIAL:

Light weight pulpboard 3" x 6" for class.

Cover paper or lining paper 6" x 4½" for class.

3"x6"	Pulp.

4½"x6"	Cover Paper

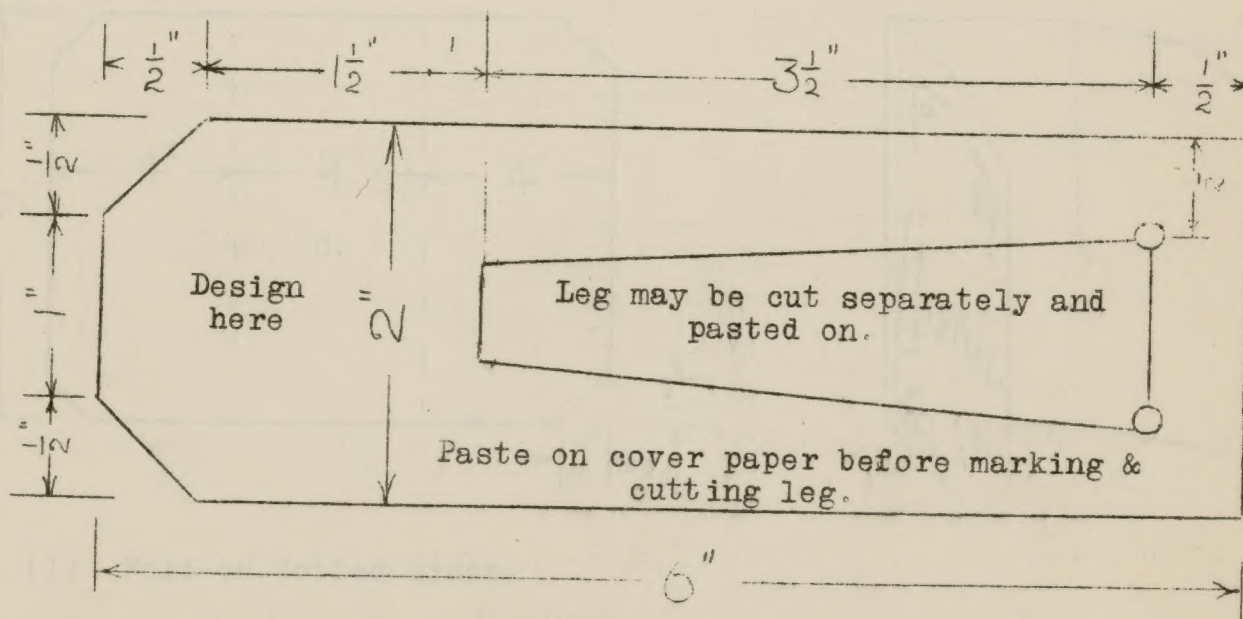
Method of
cutting from
9"x 12" stock.

PUPIL SUPPLIES:

Rule and pencil.
Scissors.

CLASS SUPPLIES:

Punches.
Paste & Brushes.
Old magazines or paper on
which to paste.



Draw on blackboard. Make, demonstrate each operation and write in proper sequence on blackboard.

Note. Design and paint in classroom. See sheet of suggested designs.

MANUAL ARTS

Group 3. Project 1.

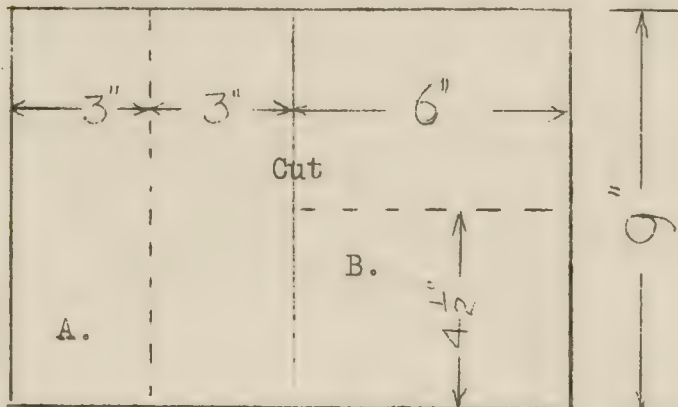
GRADE IV.

3 PAPER FOLDERS

MATERIAL:

1 piece stiff Cover Paper (colored) 9"x12" for A & B.

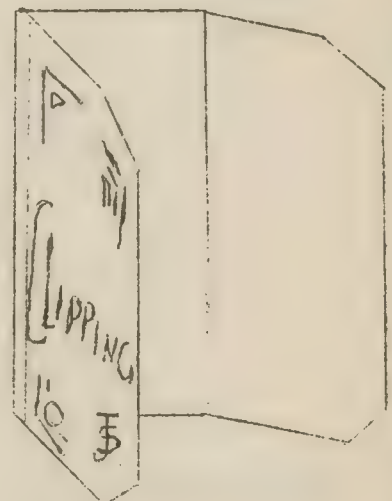
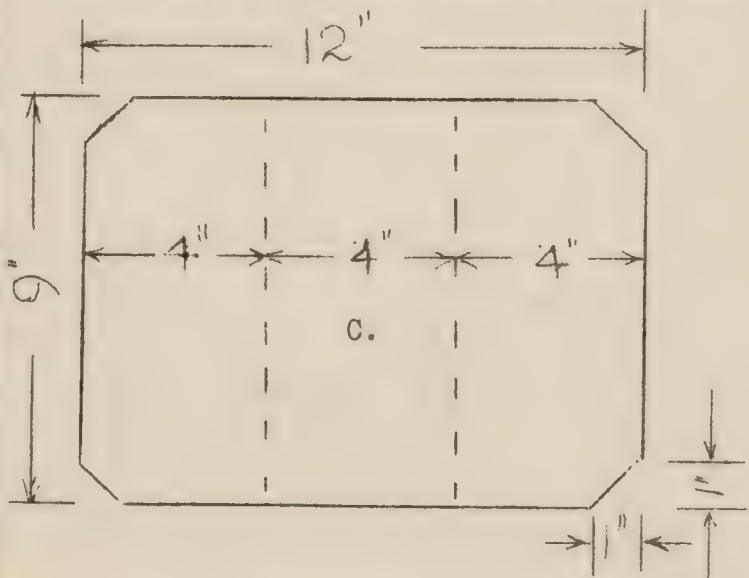
1 piece manilla tag (light) 9"x12" for C. 2 feet gummed linen tape for backs.



B.

(1) Fold on dotted lines pieces A & B.

(2) Mark $\frac{1}{2}$ " from crease at back and stick in place linen tape.



(1) Fold on dotted lines.

(2) Mark.

Design and paint covers in classroom.

MANUAL ARTS

Group 3. Project 2.

GRADE IV.

BOOKLET - Single Signature.

CLASS MATERIAL:

Cover paper 6 x 9

Lining paper 6 x 9

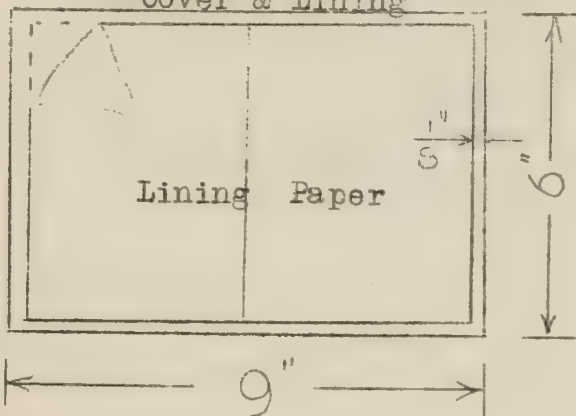
Catalog Book Paper or plain cartridge 9" x 12".

String and needles.

Paste & brushes.

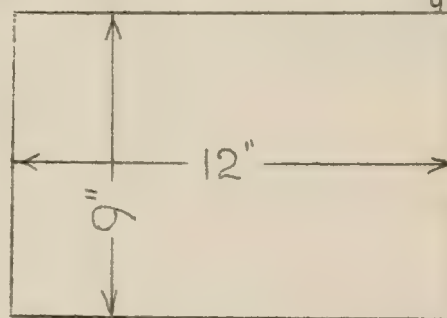
Rule, pencil & scissors.

Cover & Lining

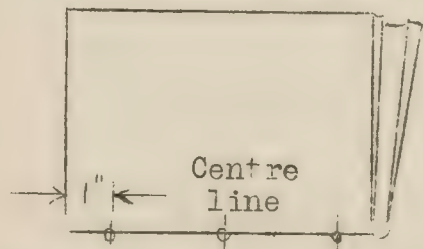


Note. Teach folding folio,

quarto,
octavo.



Book Paper. 1 piece
quarto fold.



Mark holes for sewing

Tie Ends.

Place signature in
cover, sew and tie.

GENERAL PROCEDURE:

- (1) Mark and cut cover, lining and book paper.
- (2) Fold cover and book paper, quarto fold.
- (3) Glue lining in place.
- (4) Mark holes and punch.
- (5) Insert signature and sew as directed.

Cover Design to be worked out in classroom.

MANUAL ARTS

Group 3. Project 3.

GRADE IV.

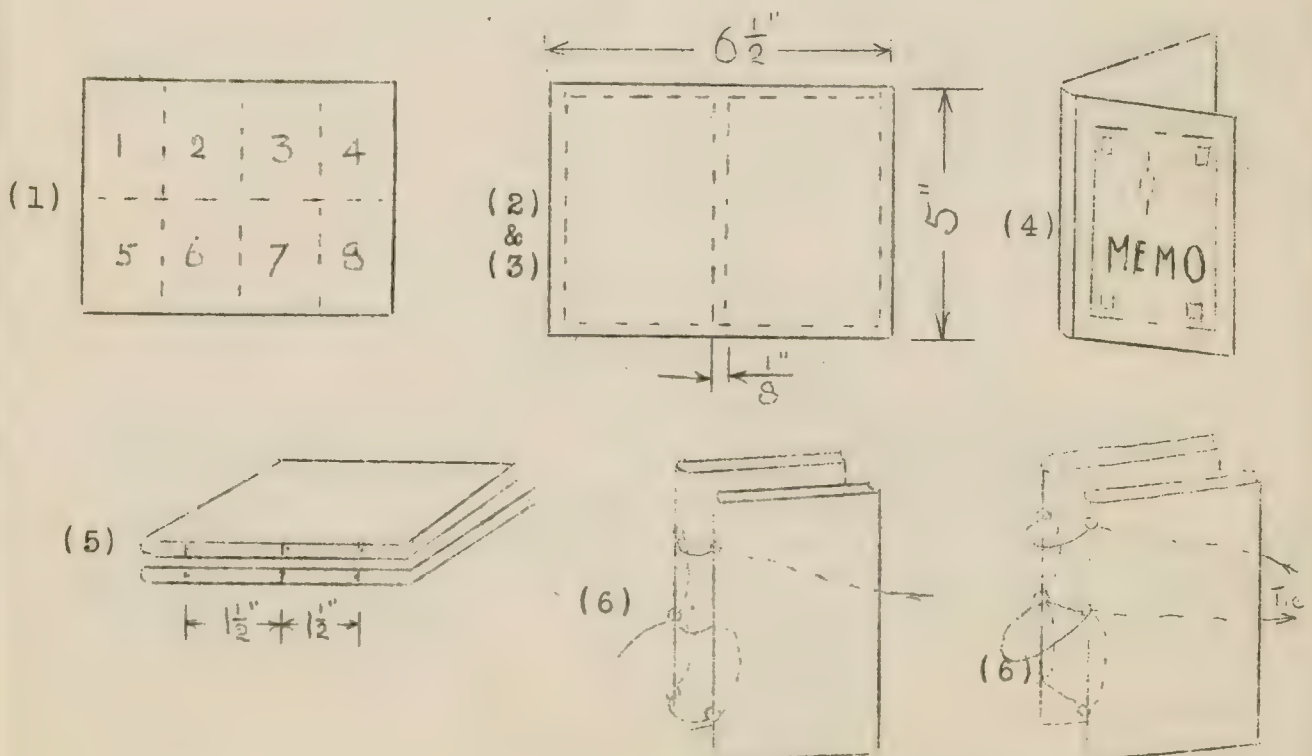
BOOK Two Signatures. Octavo.

CLASS MATERIAL:

9" x 12" Book Paper (2 sheets per pupil)
5" x 6 $\frac{1}{2}$ " Kraft Cover (1 " " " 0.
Linen Thread (18" per pupil.)
Needles.
Paste & Brushes.
Rule, pencil, scissors.

GENERAL PROCEDURE:

1. Fold 2 signatures octavo.
2. Obtain size of cover, allowing $\frac{1}{8}$ " larger all round signature.
3. Measure thickness of the two signatures.
4. Mark out cover score and fold.
5. Mark position of holes and pierce with needle signatures ready for sewing.
6. Sew signatures together and paste into cover.
7. Paste down linings.
8. Cut leaves and design cover.



Reference - Bonnie Snow.

Industrial Arts, Part 6.

Group 4. Project 1 A.
B.

MANUAL ARTS

GRADE IV.

CLASS MATERIAL:

Pulpboard (a) 3" circle 1" centre
Pulpboard (b) $2\frac{1}{4}$ " x 9" (c) $1\frac{1}{2}$ " x 13"
Ovals $5\frac{1}{2}$ " x $4\frac{1}{2}$ ".

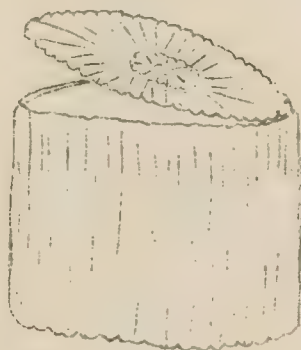
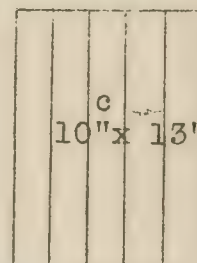
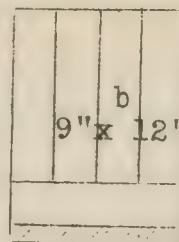
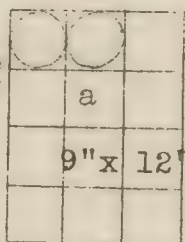
Raffia.

Glue, scissors, needles.

Cover paper 2" x 13".

B O X

Methods of cutting materials

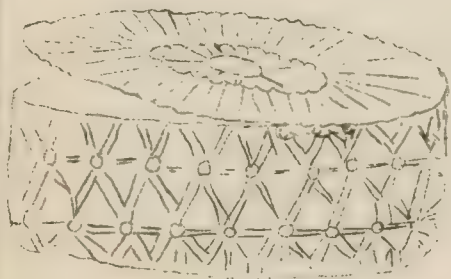


PROCEDURE:

- (1) Lap 9" board $\frac{1}{4}$ " - sew in position with scrap raffia.
- (2) Wrap with raffia.
- (3) Wrap 2 rounds for top and bottom.
- (4) Sew bottom to sides with over-casting stitch.
- (5) Overcast edge of top, joining loosely to sides with 4 or 5 over-casting stitches.
- (6) Centre of top and bottom may be filled in with weaving or spider web effect.

PROCEDURE:

- (1) Lap 13" strip $\frac{1}{2}$ " and glue.
- (2) Cover outside of same with colored cover paper.
- (3) Wrap with dry raffia.
- (4) With needle and scrap raffia, sew row of hemstitching $\frac{1}{4}$ " from top.
- (5) Repeat at bottom, splitting top strands to form diagonal hemstitching.
- (6) Stitch side of box to covered bottom.
- (7) Wrap oval for top - Decorate centre with spiderweb.
- (8) Stitch in place as a hinge.



MANUAL ARTS

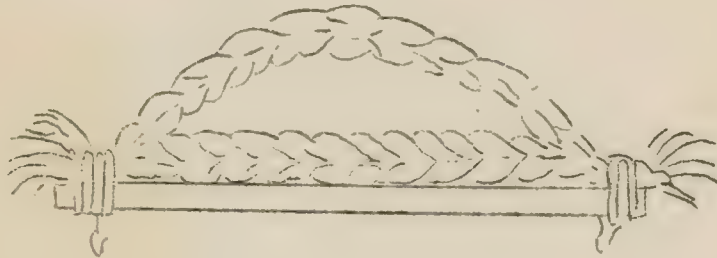
Group 4. Project 2 A.

GRADE IV.

PARCEL CARRIER

CLASS MATERIAL:

Raffia
Needles
Scissors
Pine Strips
 $\frac{1}{4}" \times \frac{1}{2}"$



PROCEDURE:

- (1) Select 18 strands of raffia.
- (2) Tie firmly at one end and fasten firmly at some point for braiding.
- (3) Divide raffia into 3 parts of 6 strands each.
- (4) Braid:- 1 over 2; 3 over 1; 2 over 3, etc.
- (5) When braid is 18" long, tie.
- (6) Cut 8" piece from braid, tie 1" from ends.
- (7) Cut 10" piece from braid, tie 1" from ends.
- (8) Place longer piece over shorter - ends even.
- (9) Tie together 1" from ends.
- (10) Poke needle through raffia ends, splitting strands to form tuft.
- (11) Through the pine strip drive a braid $\frac{3}{4}"$ from each end. Bend with pliers into shape of hook.
- (12) Fasten raffia handle over strip by winding with raffia strand.

MANUAL ARTS.

Group 4. Project 2 B.

GRADE IV.

PLANT STAND MAT

CLASS MATERIAL:

Raffia

Needles.



PROCEDURE:

- (1) Braid raffia to 2 yard length - 3 strand plait.
- (2) Thread needle with scrap raffia.
- (3) Wrap $\frac{1}{2}$ " at end of braid with raffia. Twist into coil and sew in position.
- (4) Hold tail end in left hand and wrong side of work toward you.
- (5) Take stitch in tail end then into centre coil. Stitch must not show on right side. Demonstrate to class.
- (6) Continue sewing until strand is 5" in diameter or desired size.
- (7) Overhand last row firmly.

MANUAL ARTS

Group 4. ^{A.}
Project 3 B.

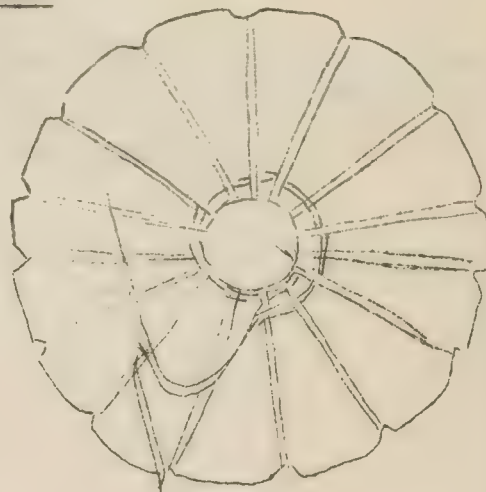
GRADE IV.

TEAPOT STAND or HANDBAG

A.

CLASS MATERIAL:

Heavy pulpboard Circles - Outer
diameter 5" (2 pieces)
Pulpboard Circles - Inner
diameter 1".
Raffia, needles,
scissors, compasses,
pencils.



PROCEDURE:

- (1) Mark off outer circumference of loom into 17 spaces (approximately 1" each) using step method.
- (2) Cut 1/8" notches at each division.
- (3) Tie large knot at one end of raffia strand. Catch back of one notch. Thread to centre for warp. Bring up to next notch, down to centre and up other side to next notch.
- (4) Tie strands together with reef knot to form continuous warp.
- (5) Fasten last strand to first strand above knot and remove large knot.
- (6) Weave plain over and under from centre of one side to edge. Introduce color as desired.
- (7) Weave reverse side in like manner.
- (8) Loom remains inside when completed.

For Handbag (B)

- (9) Weave two separate discs.
- (10) Place together and overhand edges half way round.
- (11) Plait a three strand braid and attach at sides for handle.

MANUAL ARTS

Group 5. Project 2.

GRADE IV.

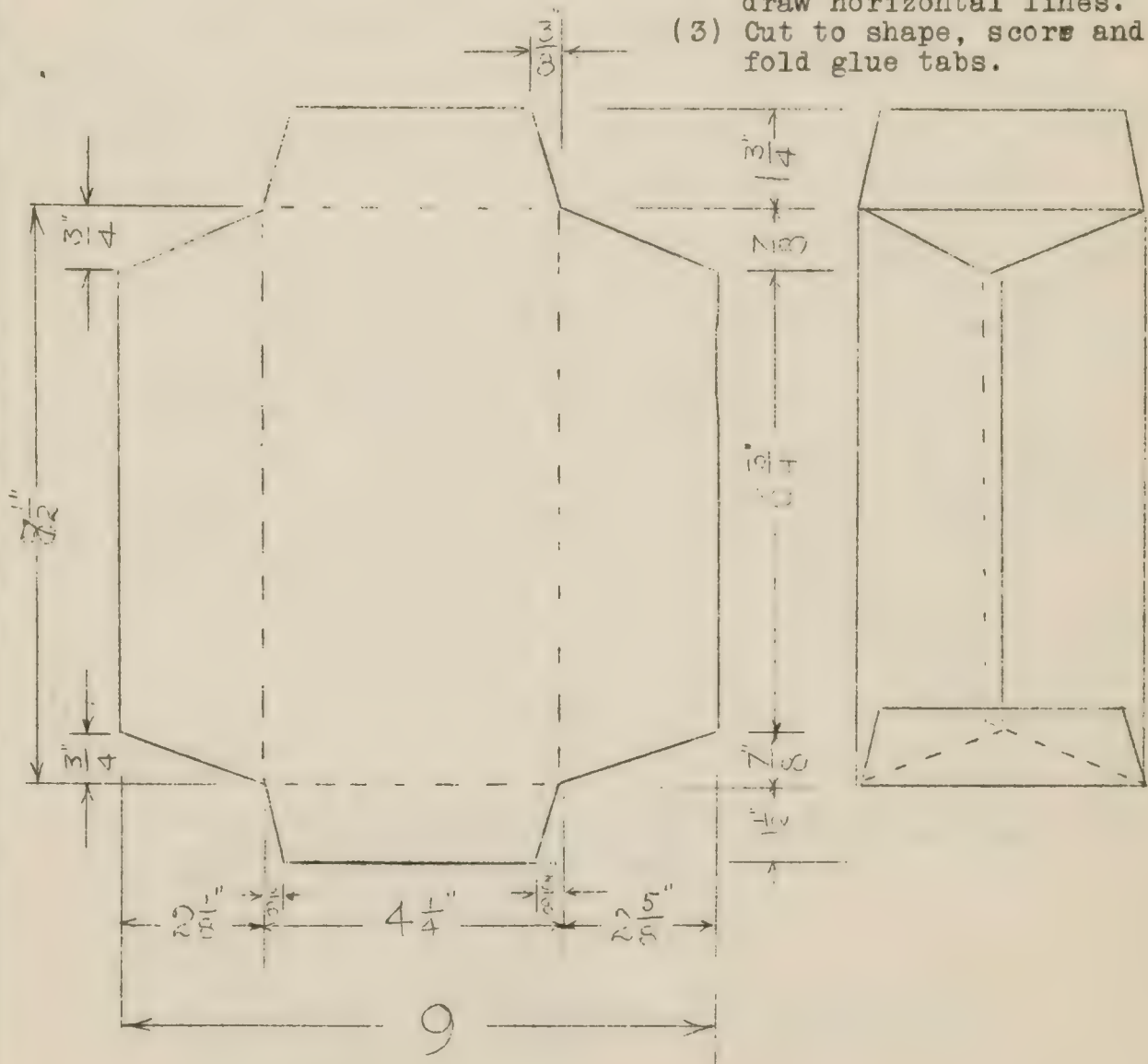
ENVELOPE - Large Filing

CLASS MATERIAL:

Manilla Tag Board 9" x 12"
Paste,
Rule, pencil, scissors.

PROCEDURE:

- (1) Mark out pattern on tag-board; starting from left hand side draw all vertical lines.
- (2) Proceed the same way and draw horizontal lines.
- (3) Cut to shape, score and fold glue tabs.



MANUAL ARTS

Group 5. Project 3.

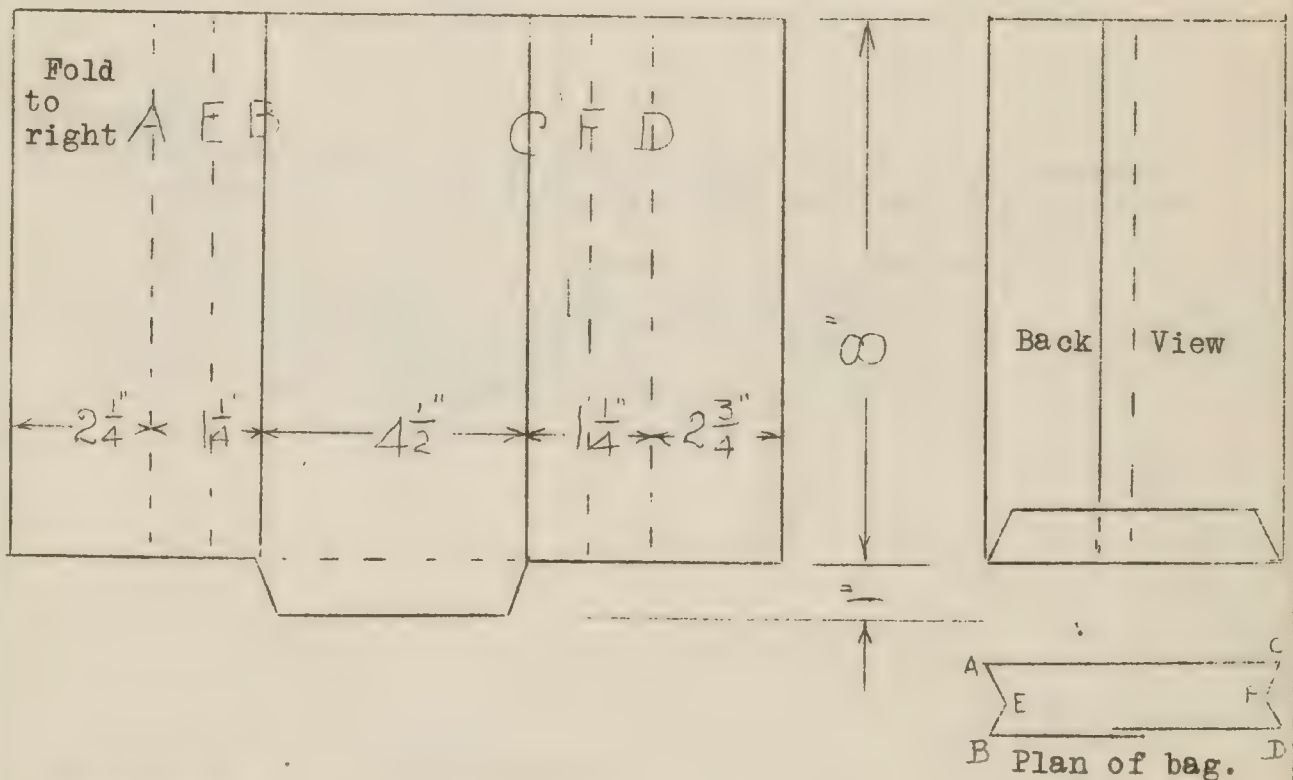
GRADE IV.

ENVELOPE

(Paper Bag)

CLASS MATERIAL:

Manilla tag 9" x 12".
Rule, pencil, scissors.
Paste & brushes.



PROCEDURE:

- (1) Mark vertical lines measuring from left hand edge. Mark and cut tab at bottom of bag.
- (2) Fold on A to the right.
- (3) Fold on C to the left.
- (4) Fold on B to the right.
- (5) Fold on D to the left.
- (6) E & F in opposite direction to adjoining folds.
- (7) Fold flat and paste seam.
- (8) Fold and paste tab.

MANUAL ARTS

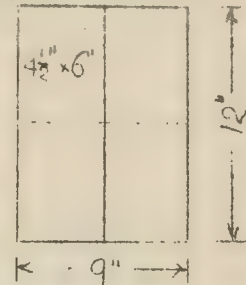
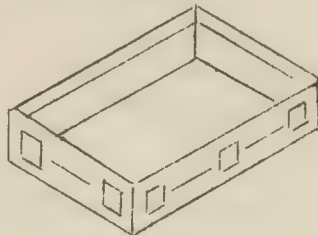
Group 6. Project 1.

GRADE IV.

OPEN BOX Sides Covered. Tab. corners.

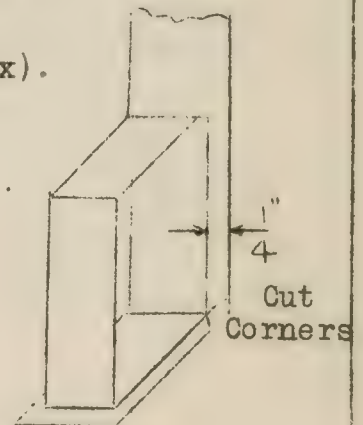
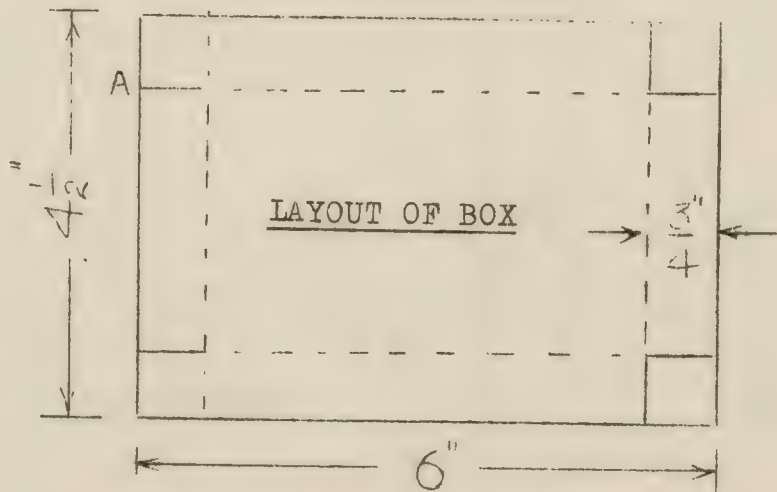
CLASS MATERIAL:

Pulpboard (light) $4\frac{1}{2}$ " x 6".
Cover paper (light) $1\frac{1}{2}$ " x 16".
Paste & Brushes
Rule, pencil & scissors.



PROCEDURE:

- (1) Measure cardboard, mark and trim to size if necessary.
- (2) Measure $\frac{3}{4}$ " in from sides and ends and mark for folds and cuts.
- (3) Cut $1/8$ " out as at A to ease tab over bottom of box.
- (4) Score all lines with edge of steel set square.
- (5) Bend to shape and glue tabs inside box.
- (6) Cover box edges as diagram.
- (7) Cut corners and turn in edge (inside of box).



- (8) Mitre corners and paste to bottom of box.
- (9) Paste cover on bottom if required.

Reference:-

Buxton & Curran
Page 321.

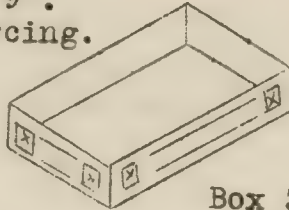
Group 6. Project 2.

GRADE IV.

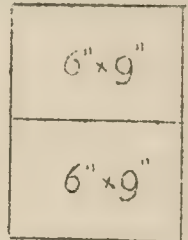
CLASS MATERIAL:

Light Pulpboard 6" x 9".
Kraft Cover Paper 6" x 9".
Coloured Lining 6" x 9".
Gummed Paper, reinforcing.
Paste & brushes.
Rule, Pencil &
Scissors.

OPEN BOX With reinforced corners inside and out.

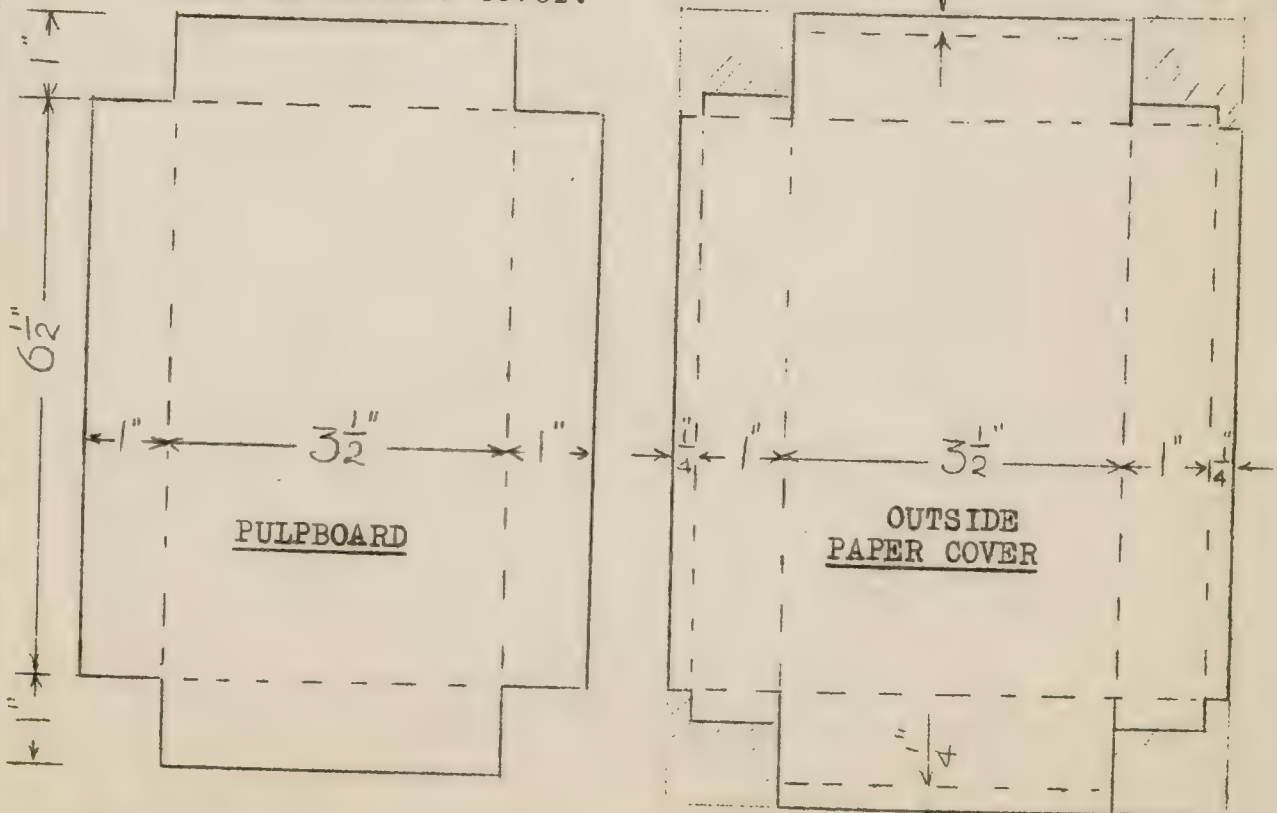


Box $3\frac{1}{2}$ " x $6\frac{1}{2}$ " x 1" high



PROCEDURE:

- (1) Mark out pulpboard and cut to shape, working from diagram on Blackboard.
- (2) Score and fold on dotted lines.
- (3) Cut four 1" strips of gummed paper and fix in place at corners.
- (4) Mark out and cut cover paper, score lightly, paste and attach to box.
- (5) Mark out lining paper to diagram on blackboard, lining to be $\frac{1}{8}$ " down from inside of box and corners to be turned $\frac{1}{4}$ " the same as outside cover.



- (6) Stick print design on sides and ends of box.

MANUAL ARTS

Group 6. Project 3A.

GRADE IV.

EQUILATERAL TRAY

Lined inside and out.

CLASS MATERIAL:

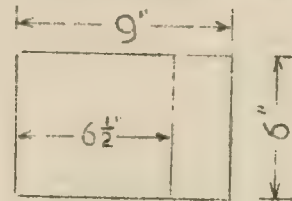
Pulpboard 6" x 9"

Cover paper $1\frac{1}{2}$ " x 16"

Gummed paper

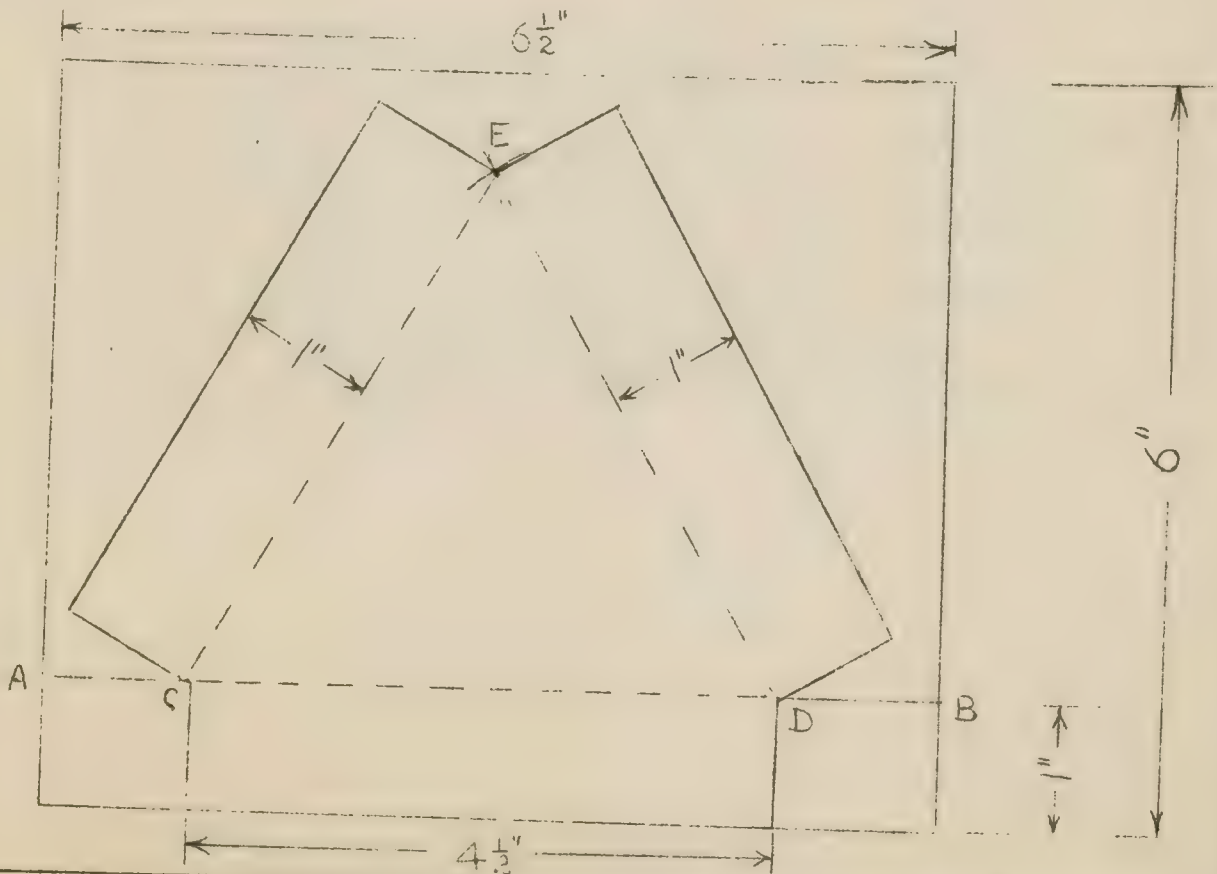
Paste & brushes

Rule, pencil, compass & scissors.



PROCEDURE:

- (1) Mark off and cut cardboard 6" x $6\frac{1}{2}$ ".
- (2) Draw base line A.B. and mark off base of triangle C.D.
- (3) With radius C.D. draw arcs from C & D intersecting at E, and complete equilateral triangle.
- (4) Square out for sides with set square and complete lay-out.
- (5) Score, cut and secure corners with gummed paper.
- (6) Apply cover paper to sides and tap $\frac{1}{4}$ " over base and on inside of box as in previous projects.



MANUAL ARTS

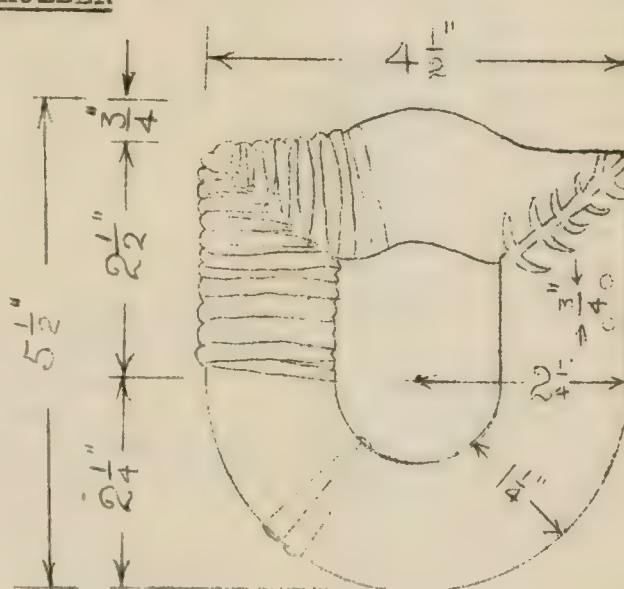
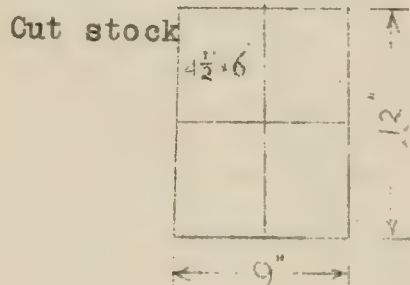
Group 1. Project 1.

GRADE V.

WHISK HOLDER

MATERIAL:

Card frames heavy pulpboard
 $4\frac{1}{2}"$ x $5\frac{1}{2}"$ as sketch.
Raffia, needles, scissors,
Card for backs.
Cover paper for backs
Paste.



PROCEDURE:

1. Punch holes $\frac{3}{16}"$ apart in upper corners.
2. Punch holes in sides for hanger.
3. Sew raffia into corner perforations - 3 times in outer perforation for corner turn.
4. Wrap raffia over remaining part of frame - two layers.
5. Weave or sew raffia into corners to cover spaces, in desired design.
6. Cover card back with paper in harmonizing shade.
7. Punch corresponding perforations in sides.
8. Braid 3-strand length of plaiting for handle.
9. Insert in side perforations and knot at back the required length.

MANUAL ARTS

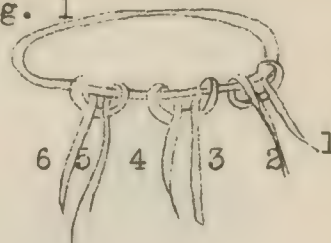
Group 1.

Project 2.

GRADE V.

KNOTTED BAG

Fig. 1



CLASS MATERIAL:

Raffia - plain.
Raffia - colored.
Scissors.

PROCEDURE:

1. Wind plain raffia around fist 3 or 4 times. Fasten.
2. Over this raffia circle knot raffia strands as in Fig. 1 (about 4 to the inch). Alternate if 2 colors are used.
3. Tie two pieces from adjoining strands, as 2 to 3 - 4 to 5, etc. in fig. 1 in single knot - first row close to top and succeeding rows about $\frac{1}{2}$ " apart.
4. Where two colors are used - every other row of knotting will occur in strands of same color - i.e. if stripe effect is desired.
5. When desired length has been knotted - tie all ends together on wrong side and clip or tie opposite strands together and fringe ends.
6. Cut original frame and remove.
7. Insert, in top row of loops, braided strands from each side of draw strings.



8. Line.

FIVE STRAND BRAIDING:

1 over 2 under 3 over 4 under 5
2 over 3 under 4 over 5 under 1
3 over 4 under 5 over 1 under 2, etc.



MANUAL ARTS

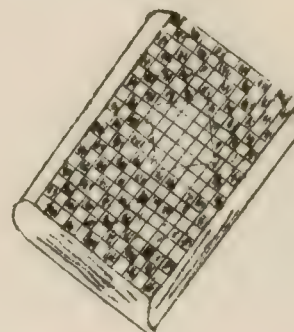
Group 1. Project 3.

GRADE V.

BOOK COVER

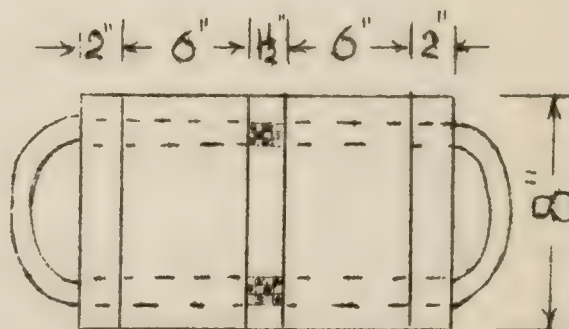
MATERIAL:

Looms
Raffia - plain
Raffia - colored
Needles
Scissors



PROCEDURE:

1. Plan design on paper the required size of cover, if any decoration is desired.
2. Set up loom with warp the required size of cover. May be woven in one piece large enough to fold - or in two pieces joined by braided bands which may be extended to form handles.
3. Weave size decided upon - ends of weavers to be left at selvedge sides and darned in when finished.
4. Remove from loom - darn in loose ends and trim.
5. Turn 2" at sides - overhand edges.
6. Braid 5 or 7 strand strips (if used) and fasten in place.
7. Press.



MANUAL ARTS

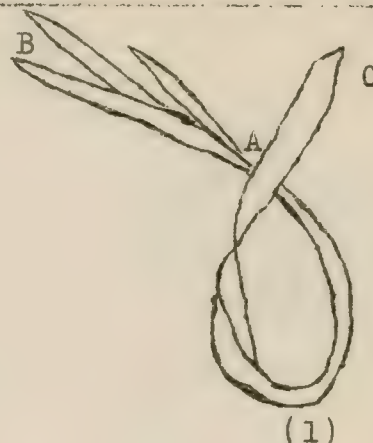
Group 1. Project 4.

GRADE V.

BASKET

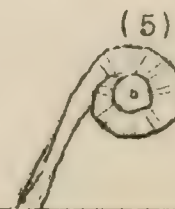
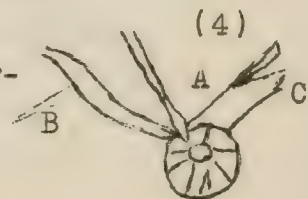
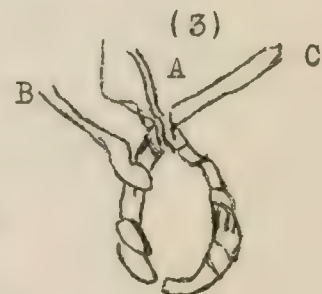
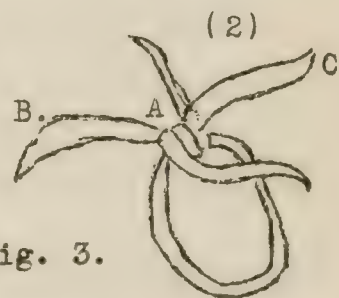
CLASS MATERIAL:

Raffia - Needles
Twine or scrap raffia.



PROCEDURE:

1. Make loop at one end of twine or scrap raffia. Fig. 1.
2. Bind weaving thread over two parts at A. Fig. 2.
3. Wind thread 6 or 7 times around loop. Fig. 3.
4. Pull ends B & C so loop is made as small as possible. Fig. 4.
5. Wrap binding thread once over tail end (B) away from you, then over tail into centre from back. Draw tight - Repeat for 1 row.
6. In succeeding rows bind tail end then into space left by binding in previous row.
7. When circumference of row is larger binding may wrap end 5 times between stitches.
8. Continue till bottom of box is size desired.
9. Form sides to shape.
10. Make cover to fit in similar manner.
11. Color may be introduced if desired.



MANUAL ARTS

Group 1. Project 5.

GRADE V.

PURSE

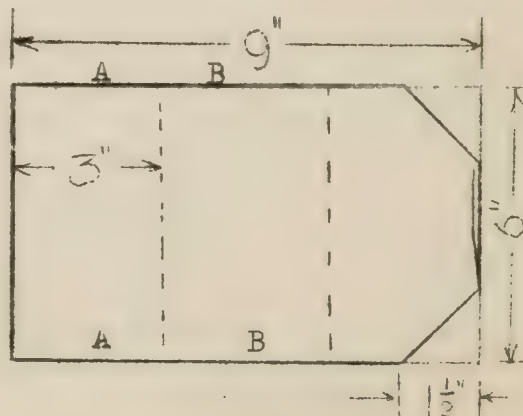
CLASS MATERIAL:

Canvas 8" x 11"
Squared Paper 6" x 9"
Pencils, rulers
Raffia, tapestry needles.
Lining 6" x 9".



PROCEDURE:

- (1) On squared paper - plan all-over design in rows, squares, diagonals or diamonds. Decide on colors to be used.
- (2) Turn two narrow folds all round and baste with scrap raffia to prevent ravelling.
- (3) Sew back and forth, a row at a time, colors changed as needed.
- (4) Join strands by reef knot. Fasten ends by weaving under stitches on back.
- (5) When design is completed adjust lining - right sides together. Stitch around 3 sides by stitching stitch. Trim edges.
- (6) Turn right sides out. Overhand open ends together.
- (7) Press on inside.
- (8) Fold as dotted lines,
- (9) Overhand sides A & B together to form pocket.
- (10) Clamp in a snap fastener.



MANUAL ARTS

Group 2. Project 1.

GRADE V.

TELEPHONE INDEX.

MATERIAL:

Pulpboard (heavy) 5" x 12"

Manilla Tag 9" x 12".

Binders Linen 1" x 5 & Colored Cover paper 6" x 12"

Eyelets 2 - & colored twine.

PROCEDURE:

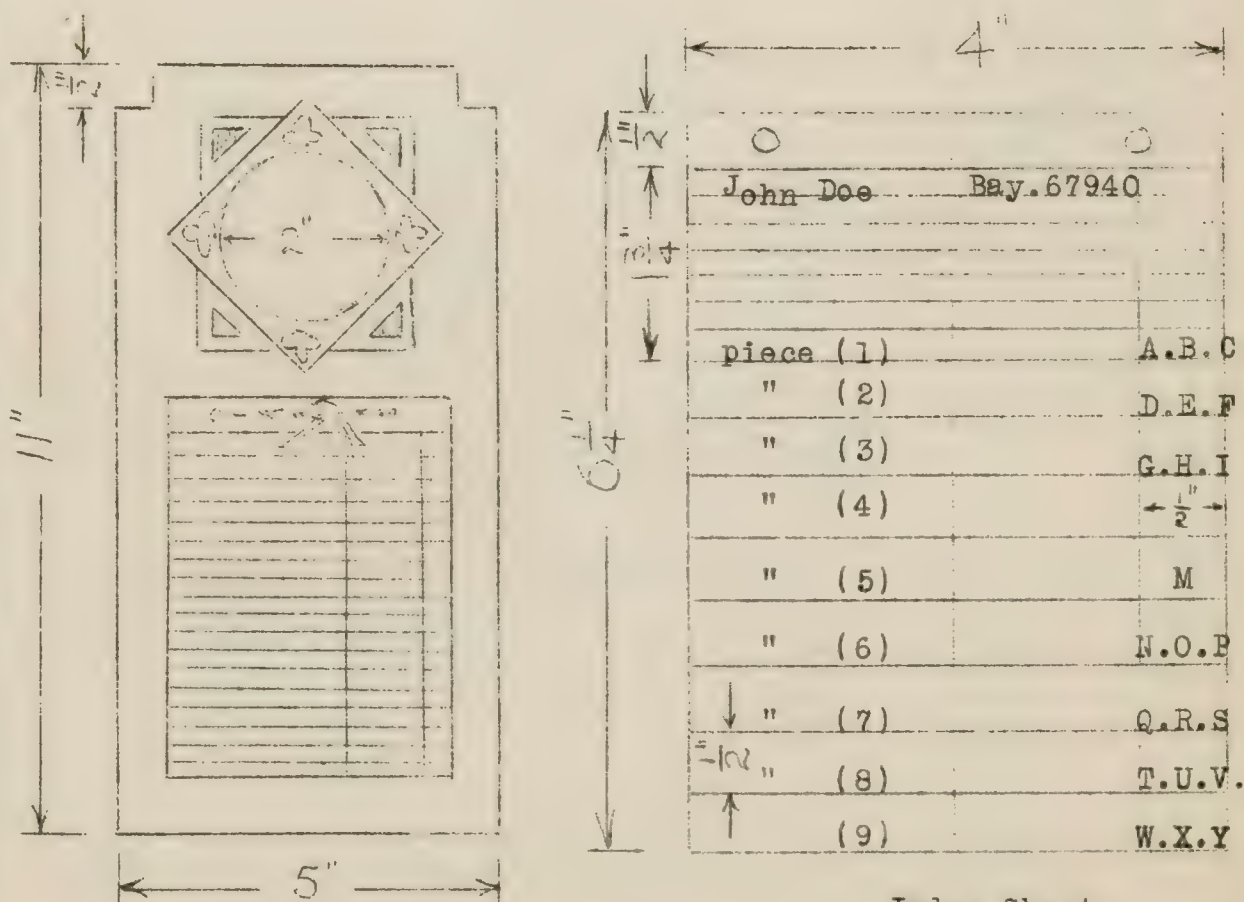
Mark out back and cut to shape.

Cut cover paper to turn $\frac{1}{2}$ " over back and paste in place.

Fold and cut manilla tag, paste on linen and put in eyelets.

Line and index.

Punch holes in back with punch and tie in place.



Index Sheet

Make suitable design and paint in art room.

MANUAL ARTS

Group 2. Project 2.

GRADE V.

FILE FOR SNAPSHOTS

MATERIAL:

Light Pulpboard 9" x 12".

Cover paper 9" x 12".

Rule, scissors, pencil, set square, paste & brushes.

PROCEDURE:

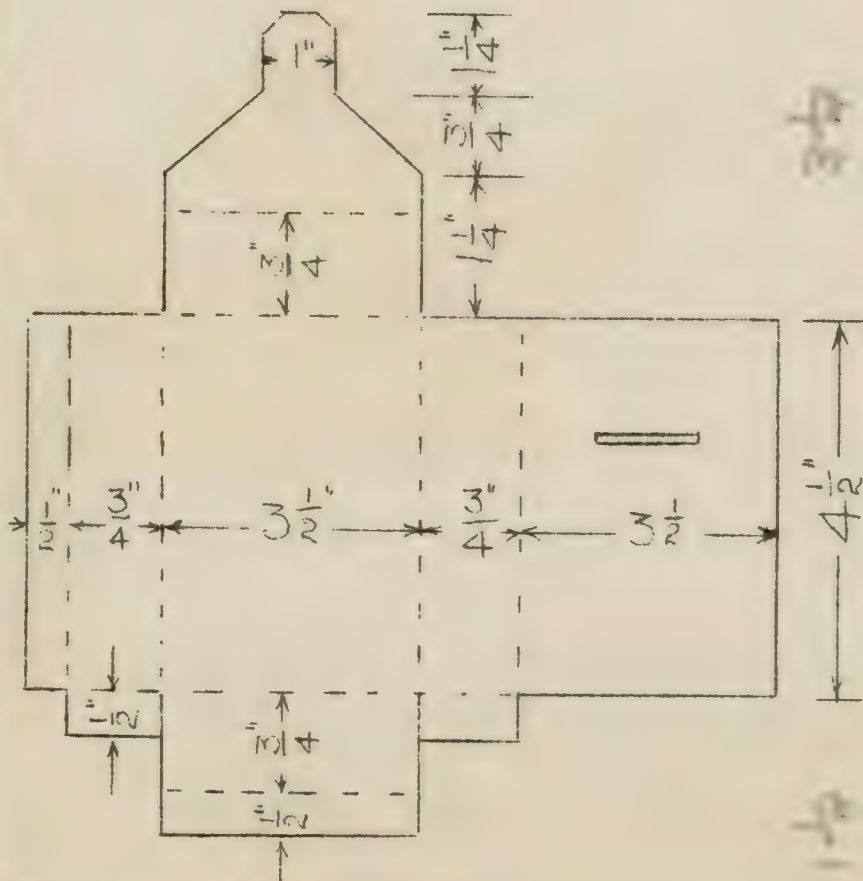
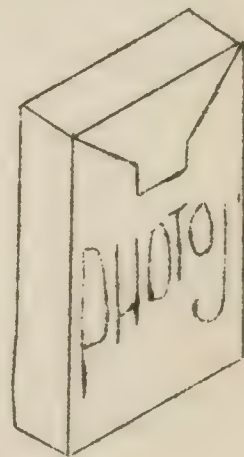
Mark out, cut and score pulpboard.

Mark out and cut cover paper. Develop on blackboard.

Paste together box.

Cover and cut slit for Tab.

Letter.

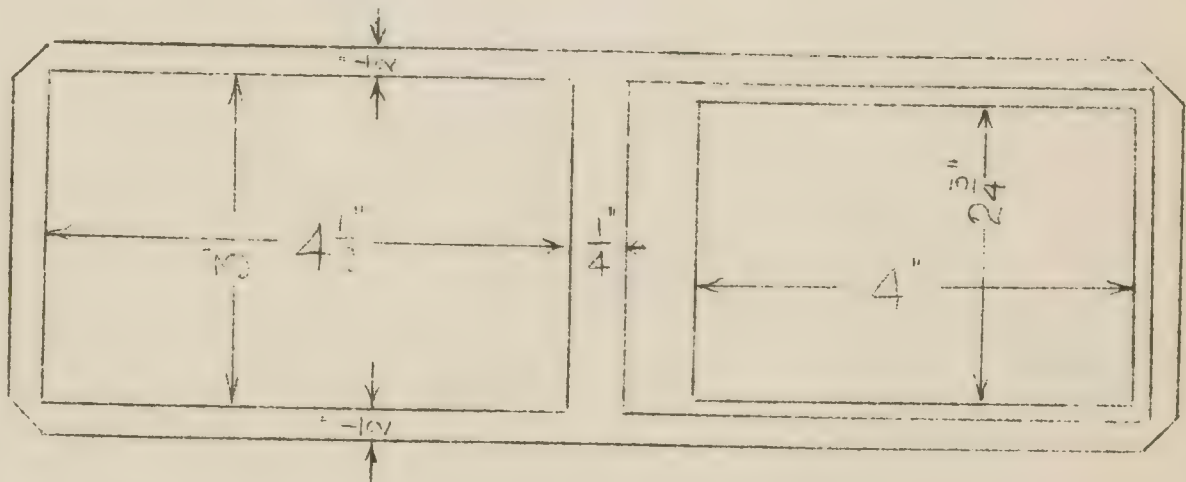
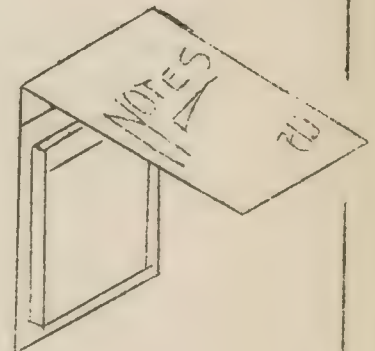
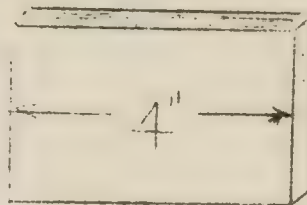
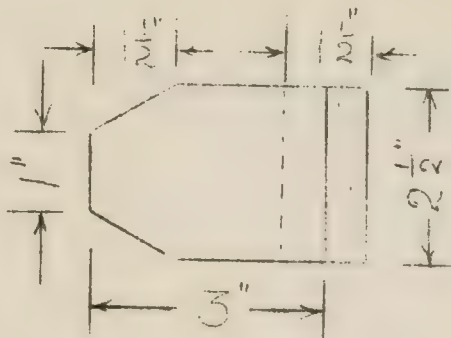


MEMO FOLDERMATERIAL:

Pulpboard 3" x 9" & 3" x 4". (Heavy)
 Binder's linen 4" x 15" & 3" x 9" Inside Cover.
 Book Paper - 3 pieces 9" x 12".
 Scrap card board and scrap linen.

PROCEDURE:

Cut card back. Paste on scrap linen.
 Fold book paper and paste on card back.
 Trim book to shape.

BACK COVER:

- (1) Cut boards to sizes.
- (2) Cut linen to size.
- (3) Paste linen on to boards and turn edges inside.
- (4) Cut and paste linen inside 1/8" smaller all round than cover.
- (5) Cut pocket board and cover with linen. Paste down as (directed).

SNAP SHOT ALBUM or SCRAP BOOK

MATERIAL:

Georgian cover paper $4\frac{1}{2}$ " x 12".

Georgian cover paper - 3 pieces 9" x 12".

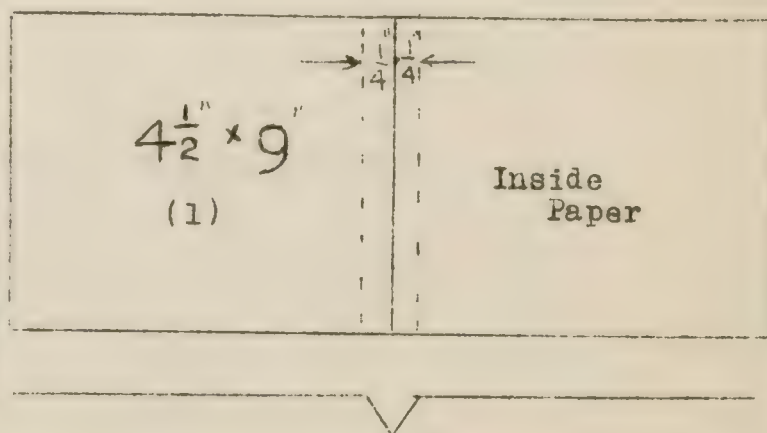
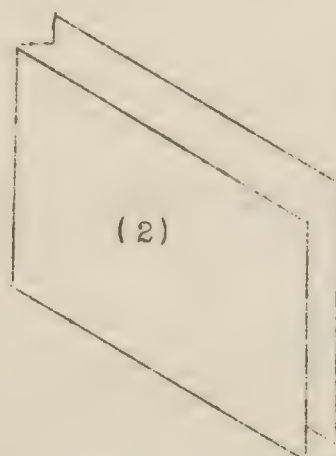
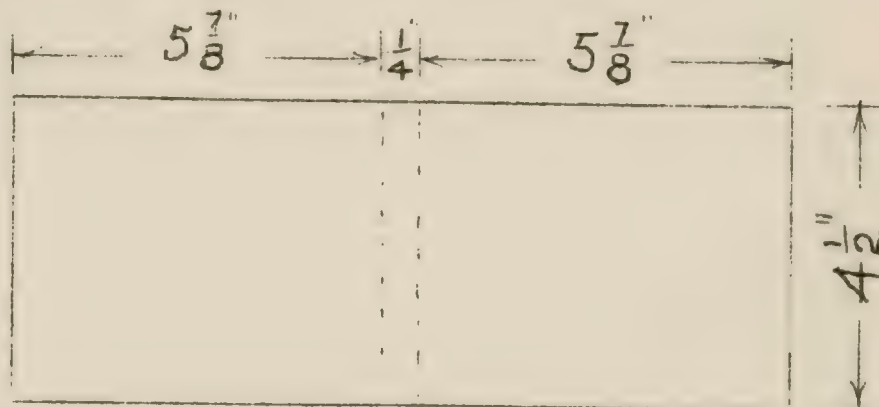
PROCEDURE:

Cut score and fold cover to size.

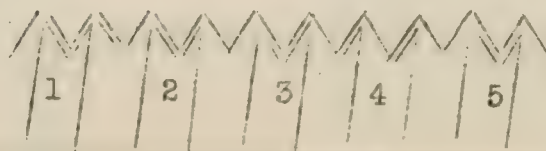
Fold and cut inside paper to size and to diagram.

Cut and fold zig-zag strip for pasting into cover.

Paste leaves into strip, then into book.



Paste to cover



Paper:-

Strip for pasting leaves in book.

A BOOK OF 3 SIGNATURES

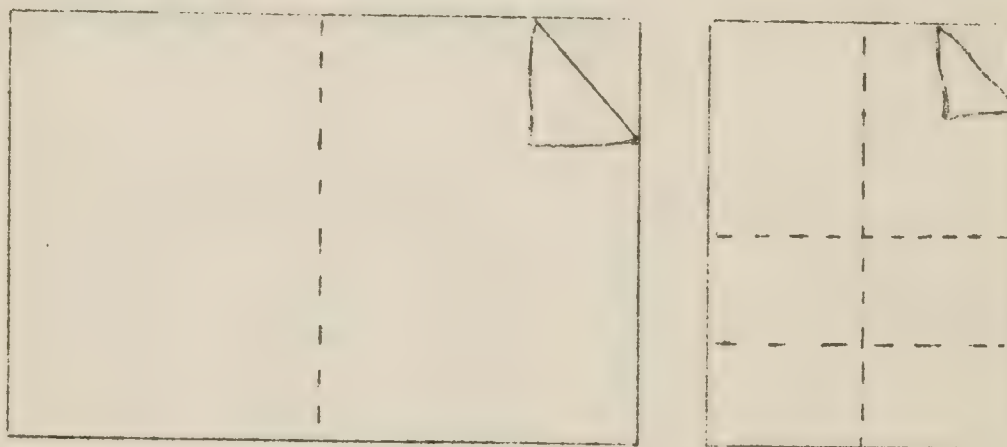
(Sewing and pasting down method)

MATERIAL:

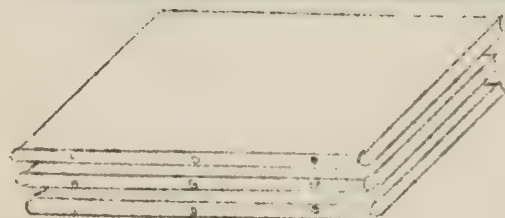
Georgian cover paper 9" x 12".
 Book paper - 3 sheets standard size 12 x 18.
 Book binders twine & needle.

PROCEDURE:

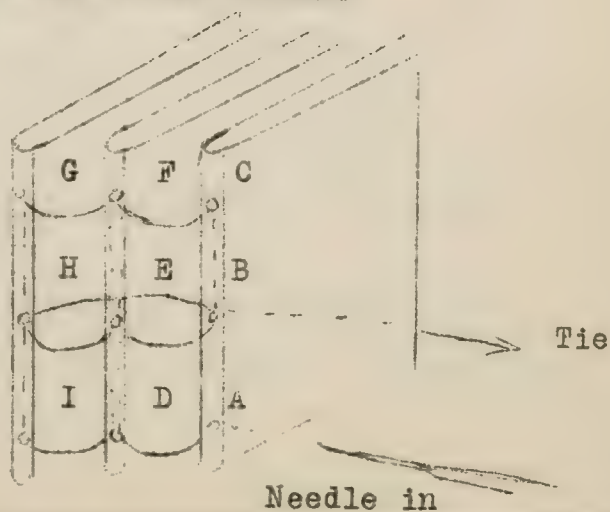
Fold book paper into sixteen page sections, folding edge to edge.
 Sew sections together, paste on scrim backing and glue to cover.
 Paste down the two inside leaves.



Pierce holes in sections and sew to directions.



Out at A	in at D.
" " E	" " D.
" " C	" " F.
Down and out at D.	
In at I.	out at H.
" " E	" " F.
" " G	" " H.
" " B	" " Tie.



MANUAL ARTS

Group 3. Project 3.

GRADE V.

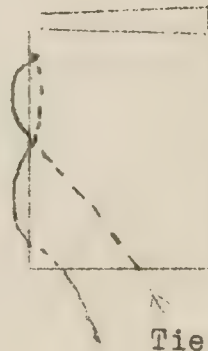
POCKET BOOK or NEEDLE CASE (Linen Backing)

MATERIAL:

	<u>Needle Case</u>	<u>Book</u>
Pulpboard - 2 pieces	$2\frac{1}{2} \times 3\frac{1}{2}$	$3 \times 4\frac{1}{2}$
Binders linen	$4\frac{1}{2} \times 6\frac{1}{2}$	$5\frac{1}{2} \times 7$
Book paper	1 piece 12" x 18".	
Twine, paste, etc.		

PROCEDURE:

1. Fold book paper 16 fold, pierce and sew, tie inside.
(same as first problem in bookbinding).
2. Cut Binders Linen to size, paste to pulpboard, making Binder Case.
3. Trim book paper to size and paste in as in last model.



Trim and obtain
sizes for Case

NEEDLE CASE:

- (1) Prepare Cover as above, using small pulpboard.
- (2) Line inside with paper.
- (3) Glue in flannel - 2 pieces $3" \times 4\frac{1}{2}"$ with "pinked" edges to receive needles.
- (4) Cut 2 slots and glue in place narrow elastic band.
- (5) Teacher to have models in front of class in both cases.

MANUAL ARTS

Group 4. Project 1.

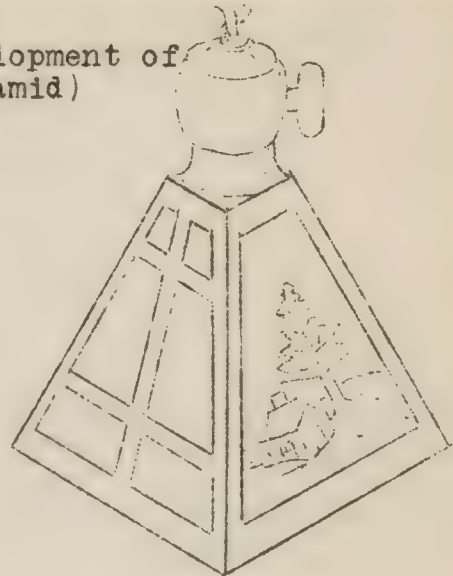
GRADE V.

LAMP SHADE

CLASS MATERIAL:

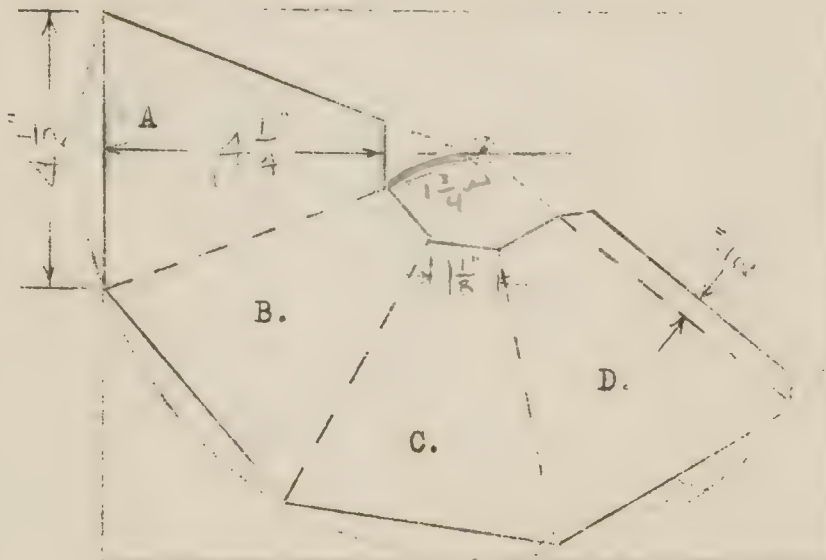
Light pulpboard 9" x 12".
Rule, pencil & scissors.
Paste & brushes.

(Development of
pyramid)



PROCEDURE:

Lay out in position on plan.
Extend side to apex of triangle
and with apex as centre construct
circle, touching bottom corners of
triangle. Cut this circle in
divisions equal to base of shade.
Connect points to centre.
Describe a smaller circle for the
top and proceed as before.



9 x 12 Pulpboard or Manilla Tag, if
preferred.

Note: Designs to be worked out and painted when paper is in
the flat. Sizes to be changed to suit the needs for
the shade.

MANUAL ARTS

Group 4. Project 2.

GRADE V.

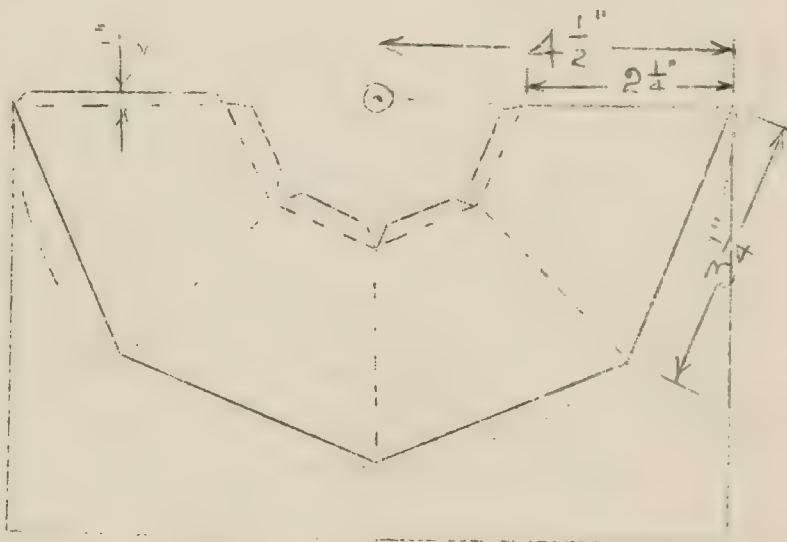
SHADE or CANDY BOX (development)

CLASS MATERIAL:

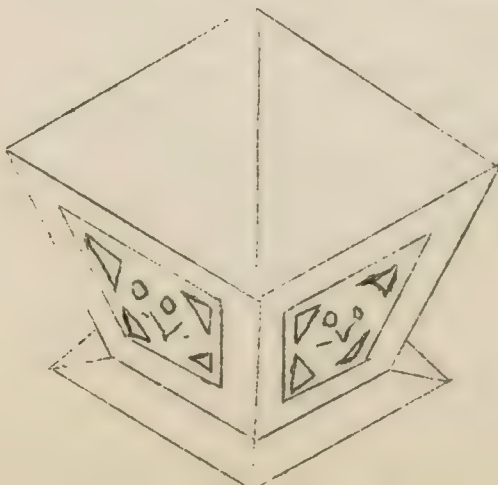
Light pulpboard 6" x 9" and 3" x 3".
Cover paper 6" x 9" outside
Cover paper 6" x 9" inside.

PROCEDURE:

- (1) Obtain centre of side and from it describe an arc with a radius of $4\frac{1}{2}$ ". From the same centre describe another arc with a radius of 2".
- (2) Divide into lengths of $3\frac{1}{4}$ " for base of pyramid leaving $\frac{1}{2}$ " tab for pasting. Connect point to centre.
- (3) Allow tabs at bottom for pasting.
- (4) Cut, score and fold.



Bottom
 $2\frac{1}{2}$ " x $2\frac{1}{2}$ "



- (5) Cut cover paper and fold before pasting box together.
- (6) Paste box together.
- (7) Paste on outside cover.
- (8) Cover bottom and paste in place.
- (9) Cover bottom inside with lining paper.
- (10) Line box inside.
- (11) Design and finish.

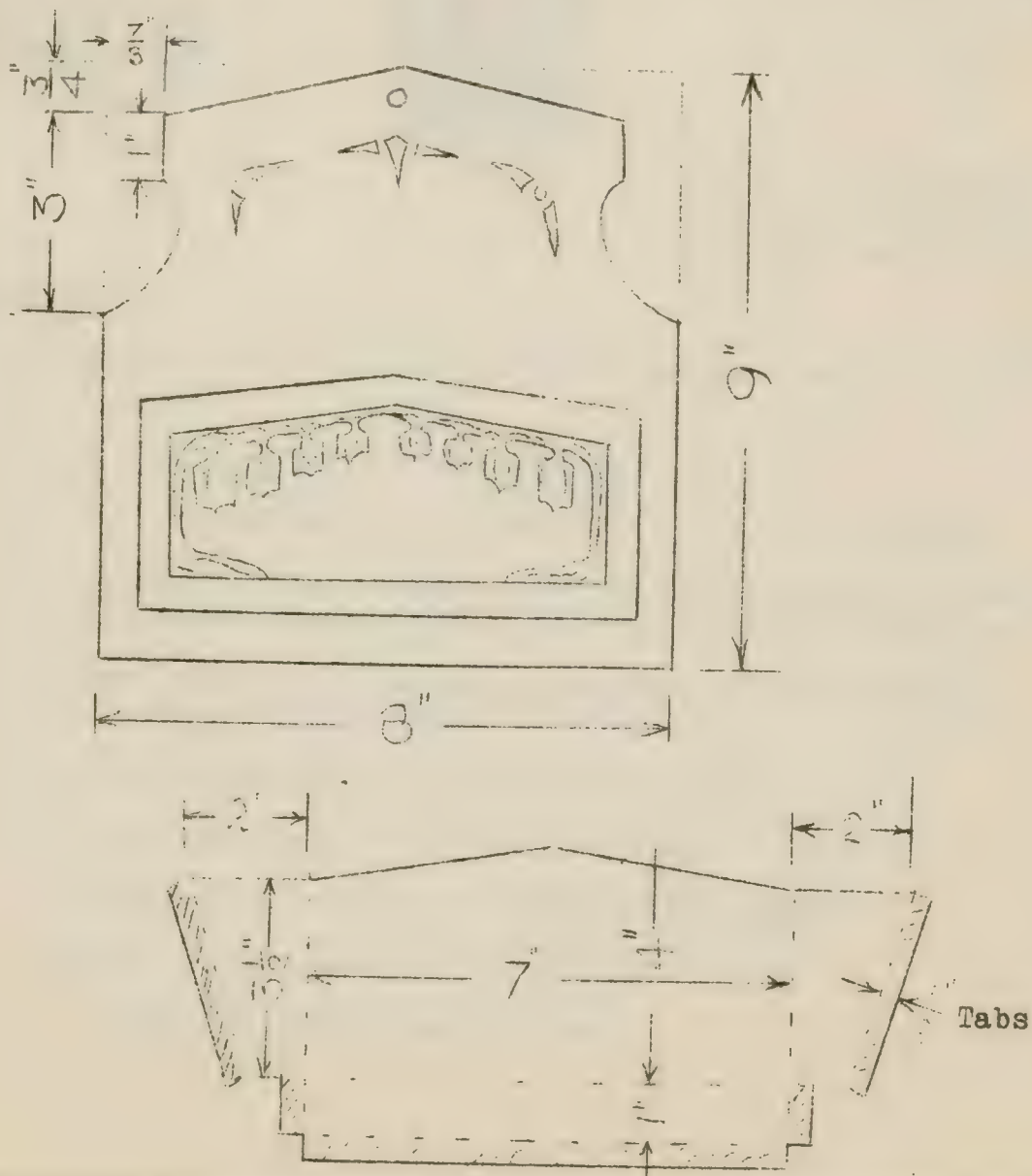
HOLDALL FOR KITCHEN

MATERIAL:

- 2 pieces light pulpboard 9" x 12".
- 2 pieces cover paper 9" x 12".
- Glue, paste, etc.

PROCEDURE:

- (1) Mark out and cut back and front piece, score and fold.
- (2) Cover back and both sides of front piece.
- (3) Glue front together when dry. Mark position and glue on back.



MANUAL ARTS

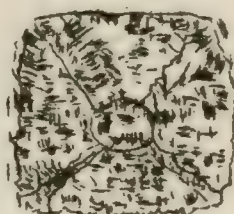
Group 5. Project 1.

GRADE V.

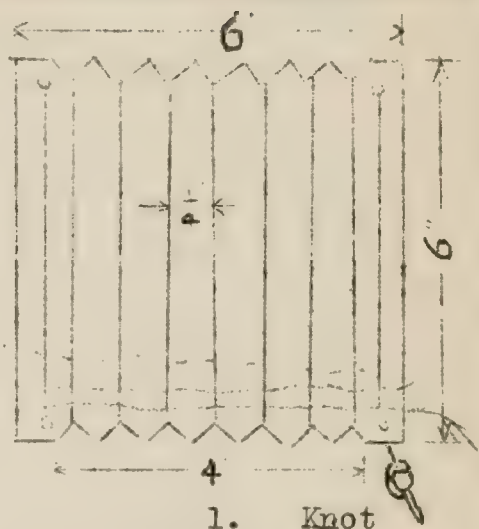
WEAVING DOLL'S TAM

CLASS MATERIAL:

Pulpboard or card looms.
Wool.
Tapestry Needles or Weavers
Scissors.



2.



Loom measurements may be varied according to sizes of tam desired.

PROCEDURE:

- (1) Measure, mark and cut notches and perforations on loom as diagram.
- (2) Thread warp on loom as diagram.
- (3) Weave over and under, from bottom to top of loom.
- (4) As each row is woven, push wool threads close together toward bottom of loom and keep selvedge edges straight and even.
- (5) When weaving is completed, untie knots at back, bend loom, and slip woven square off card.
- (6) Weave loose ends in so as not to show.
- (7) Turn corners to centre as in fig. 2.
- (8) Overhand edges from corners toward centre.
- (9) Turn points inside to form opening.
- 10) Finish top with tassel or bow.

MANUAL ARTS

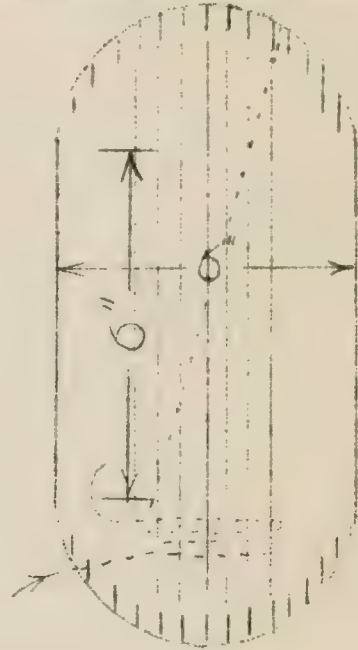
Group 5. Project 2.

GRADE V.

WEAVING - SCARF

CLASS MATERIAL:

Wooden hammock looms.
Wool.
Needles.



PROCEDURE:

- (1) Thread warp for 2" width of scarf.
- (2) Fasten at back of loom as dotted line.
- (3) For end of scarf - make button hole stitch around each warp thread.
- (4) Weave length required.
- (5) Finish with buttonhole stitch.
- (6) Weave loose ends of wool at edges and darn in, to finish.
- (7) Cut warp threads at back of loom and darn in or leave as fringe.

MANUAL ARTS

Group 5. Project 3.

GRADE V.

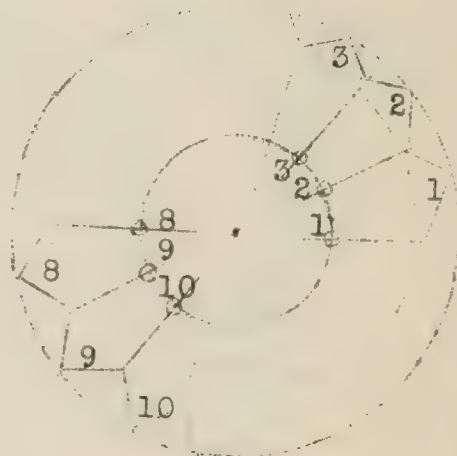
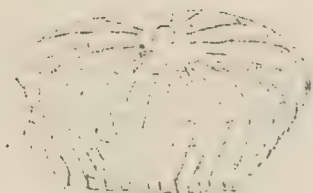
WEAVING - DOLL'S TAM

CLASS MATERIAL:

Card loom - 4" diameter

Wool

Tapestry needles.



PROCEDURE:

- (1) Mark loom into uneven number of spaces (17).
- (2) Notch $\frac{1}{4}$ " deep as in diagram.
- (3) Make perforations, corresponding to notches 1-inch from outer circumference.
- (4) Calculate warp required - measure knot end of warp - thread through O1 over notch 1, across front of loom to opposite notch (No.8), down to O8 into O9 around notch No. 9, across front of loom to notch No. 2, down to O No.2 - through to O No. 3, etc. until completed.
- (5) Begin weaving over and under at centre of front of loom. Pull tight, exactly in centre of loom. Finish front side, then back down to perforations.
- (6) Break card loom and remove.
- (7) Darn in loose ends.
- (8) Finish opening with blanket stitch.

MANUAL ARTS

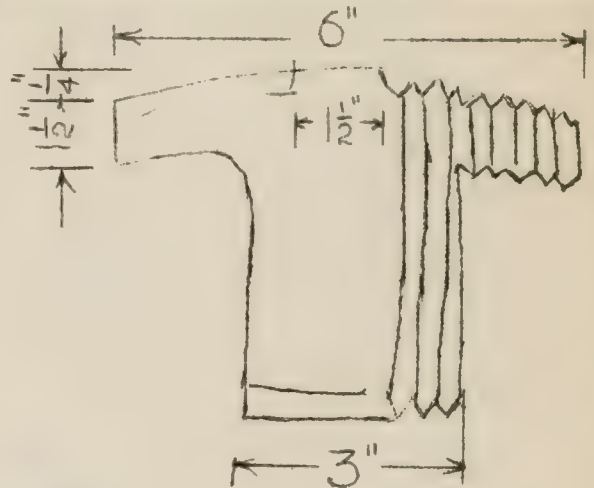
Group 5. Project 4.

GRADE V.

WEAVING - DOLL'S SWEATER

CLASS MATERIAL:

Loom as sketch.
Wool
Needles
Scissors.



PROCEDURE:

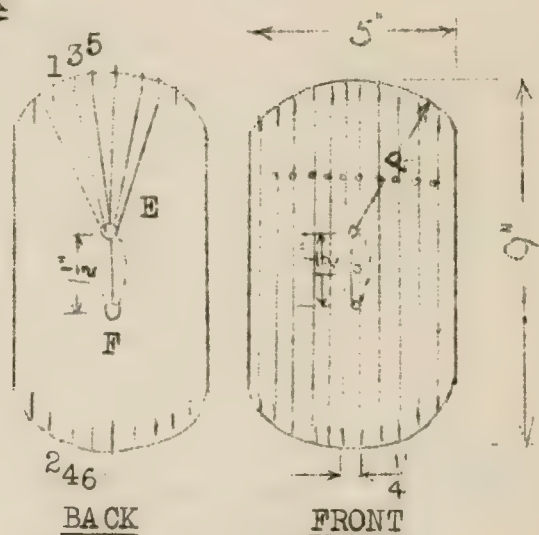
- (1) Measure as sketch and notch $\frac{1}{2}$ " deep.
- (2) Calculate length for warp - measure.
- (3) Thread warp beginning at end of sleeve - tie. Wind around from front to back until reaching body.
- (4) Thread warp from sleeve - No. 6 to bottom No. 1 around No. 1 to No. 2 - up front into No. 7 - down back into No. 2 to No. 3 - up back into No. 8 and down front.
- (5) Thread warp for neck opening as for bottom of sweater. It will be necessary to thread for neck front, then go back and join for neck at back.
- (6) Begin weaving at bottom and weave body continuously from front around back.
- (7) For sleeves - weave back and forth from sleeve end to sleeve end front - then back till rows of weaving meet.
- (8) Break loom and remove.
- (9) Darn in loose ends.

MANUAL ARTS

Group 5. Project 5.

GRADE V.

WEAVING - HAMMOCK



PROCEDURE:

- (1) Fasten rings E & F at back of loom by tying through perforations.
- (2) Fasten end of warp in E.
- (3) Thread warp to (1) across front to (2) into F - back to (4) across front to (5), etc.
- (4) Tie end in ring F to fasten.
- (5) Close to E and F, weave $\frac{3}{4}$ " with warp thread to hold firm.
- (6) Cut warp threads width of hammock - plus fringe on each side (9").
- (7) Do first row buttonhole stitch around each warp thread.
- (8) Weave - making simple stripe design.
- (9) Finish last row with buttonhole stitch.
- (10) Cut thread holding E & F.
- (11) Finish each side with loose buttonhole stitch around 4 wood threads and selvedge warp.
- (12) Trim fringe.

MANUAL ARTS

Group 6. Project 1.

GRADE V.

CLASS MATERIAL:

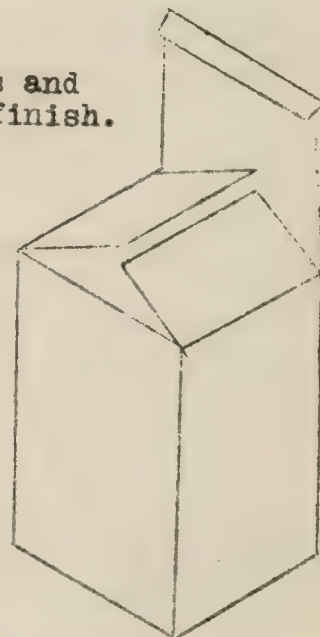
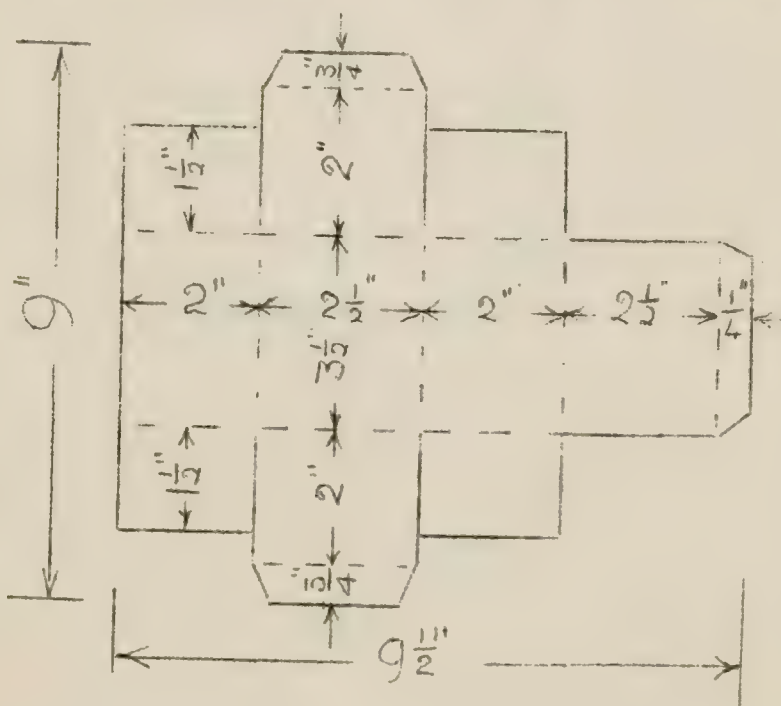
FOLDING BOX

(Paper Covered)

Manilla Tag 9" x 12"
Cover paper 9" x 12"
Rule, pencil scissors.

PROCEDURE:

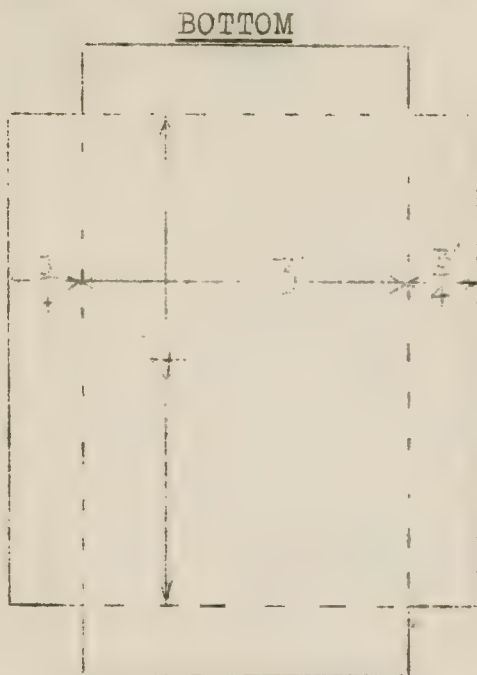
- (1) Paste cover paper on manilla tag.
- (2) Mark out shape on manilla.
- (3) Score folded edges.
- (4) Cut off waste.
- (5) Glue tab on side of box. Fold in ends and finish.



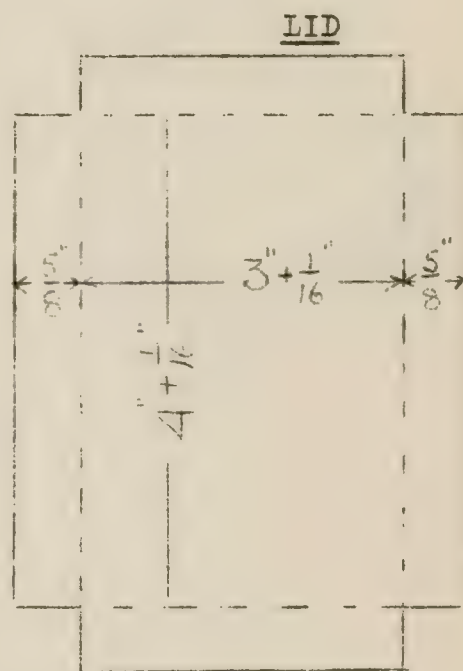
(A) BOX WITH COVER(B) SLIDING BOX.MATERIALS:Light pulpboard $4\frac{1}{2}"$ x $6"$ & $4\frac{1}{2}"$ x $9"$.Cover paper $4\frac{1}{2}"$ x $12"$.

Gummed corner strips.

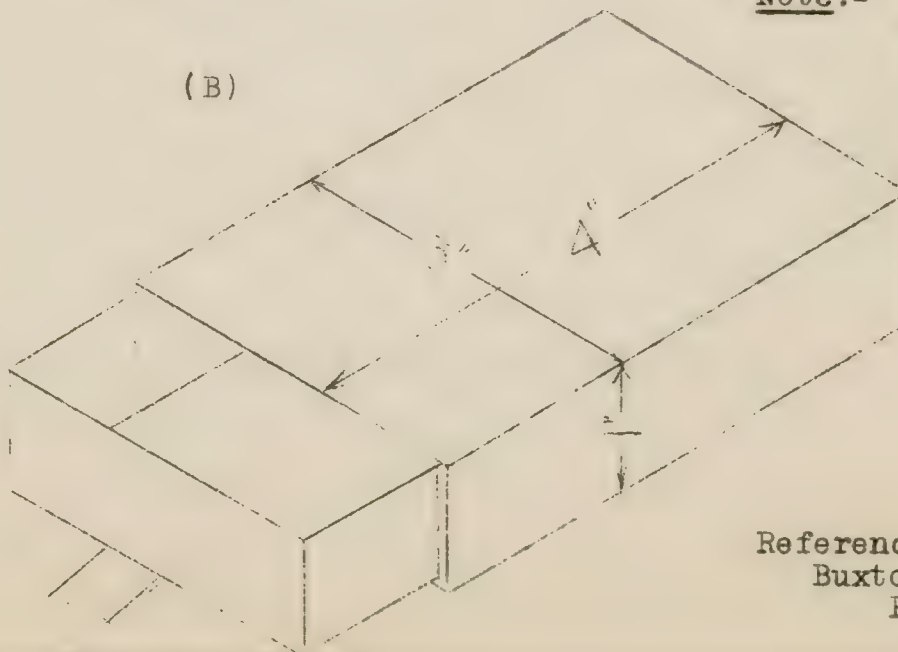
Rule, pencil & scissors.



(A)



(B)



Note:- Work out with
class the develop-
ment of this box.

Reference -
Buxton & Curran,
Pages 75 & 88.

MANUAL ARTS

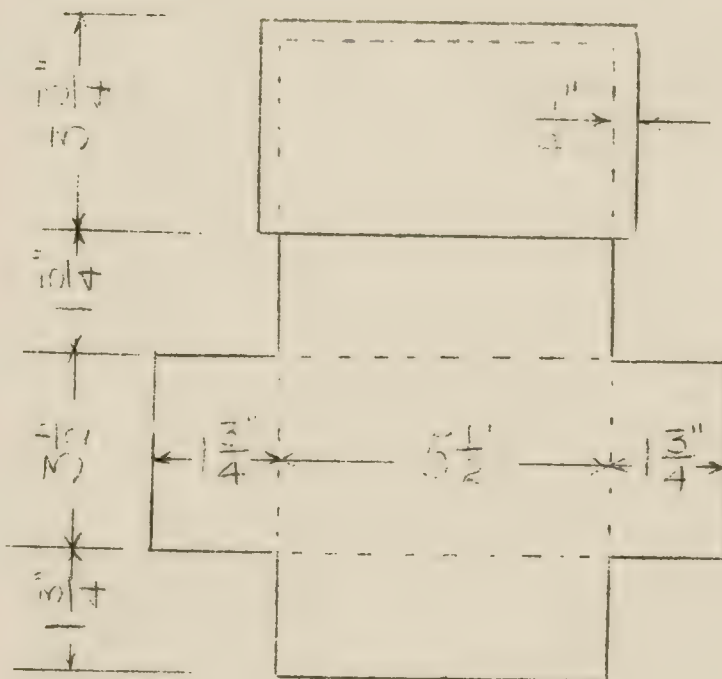
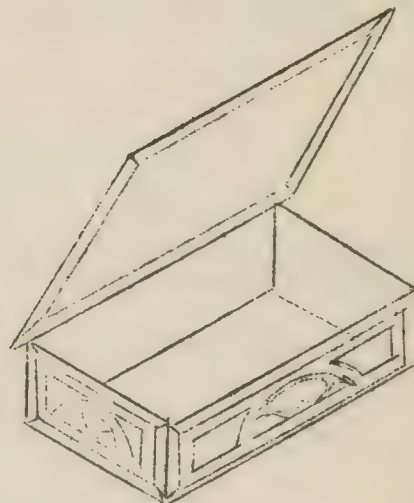
Group 6. Project 3A.

GRADE V.

BOX WITH HINGED LID, REINFORCED CORNERS AND OVERHANGING TOP.

MATERIAL:

Light pulpboard 9" x 12".
Cover paper 9" x 12".
Coloured strips 1" wide.
Reinforcing strips.



Procedure to be worked out by class.

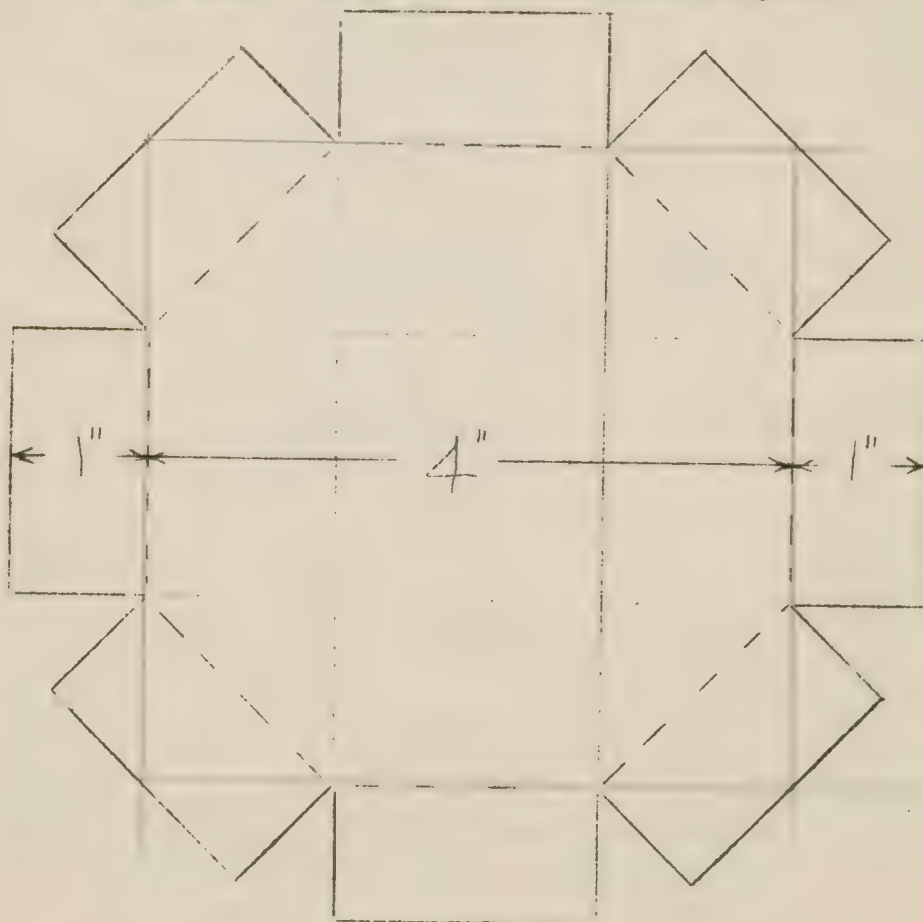
OCTAGONAL TRAY Lined inside and out.CLASS MATERIAL:

Pulpboard 6" x 6".
Cover paper 7" x 7".
Lining Paper 6" x 6".
Gummed paper.
Paste & brushes.
Rule, pencil & scissors.

ALTERNATIVE:- The same as
Project 2 with
octagonal ends.

PROCEDURE:

- (1) Mark off and cut cardboard 6" square, measure 1" in from sides, giving a 4" square. Draw diagonals and obtain length of sides, completing octagon.
- (2) Square out the corners with set square. Draw lines on corners 1" out, completing layout.
- (3) Score and finish as in previous project.



Note.

Note.

Mark cover and lining from actual box.
Paste box instead of lining when pasting same.

MANUAL ARTS

Group 7. Project 1 (a)

GRADE V.

STRING WINDER

MATERIAL:

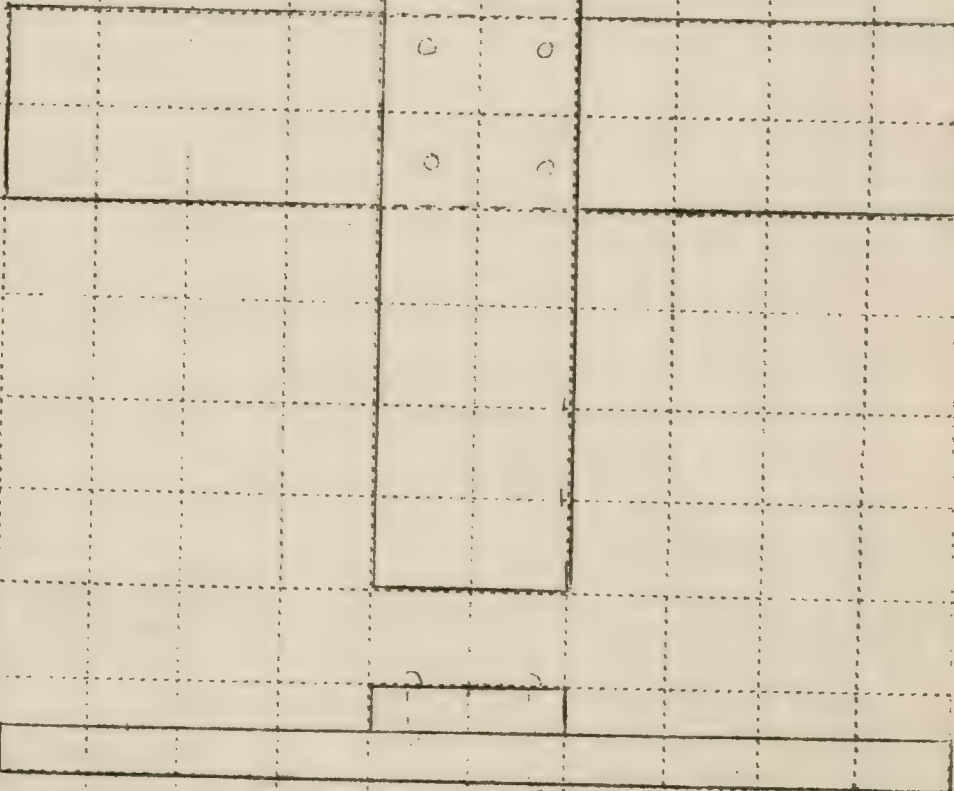
12" $\frac{1}{2}$ " x 1" Stripwood.
4 $\frac{1}{8}$ " Brads.

TOOLS:

Hammer, saw, square,
Sandpaper.
Wood, Dye, Glue.

PROCEDURE:

1. Measure square across with pencil and cut to sizes.
2. Sandpaper ends smooth.
3. Sandpaper all faces smooth.
4. Mark position and nail together.
5. Dye by brushing or dipping.



MANUAL ARTS

Group 7. Project 1.

GRADE V.

Square. (Squares below are $\frac{1}{2}$ ")

Front View

Side View

Top View

MATERIAL:

10" $\frac{1}{2}$ " stripwood
8" $\frac{1}{2}$ " Brads.

TOOLS:

Small hammer
Sandpaper No. 1.
Setsquare 90 degrees
Glue, Wood, Dye & Brush
or Dip pan.

PROCEDURE: Cutting Board

1. Measure & mark material.
2. Cut with saw on cutting board.
3. Nail parts of stock together.
4. Insert blade of square and finish nailing together.
5. Sandpaper clean and smooth

MANUAL ARTS

Group 7. Project 2.

GRADE V.

LADDER

MATERIAL: 26" $\frac{1}{2}$ " x $\frac{1}{2}$ " stripwood

2 Doz. $\frac{1}{2}$ " Brads.

TOOLS: As regularly used.

PROCEDURE:

Measure and cut legs
of ladder.

Measure and cut one
rung or step (see
demonstration on
method of cutting
from a pattern).

Sandpaper all to
length.

Draw space divisions
on legs.

Nail in place. Sand-
paper and colour.

MANUAL ARTS

Group 7. Project 2a.

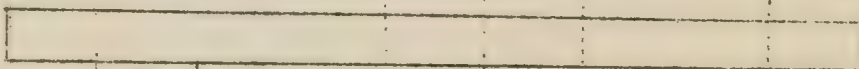
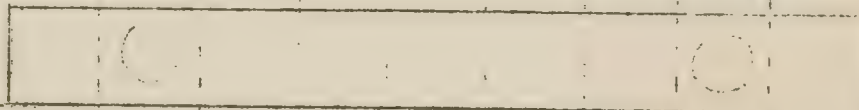
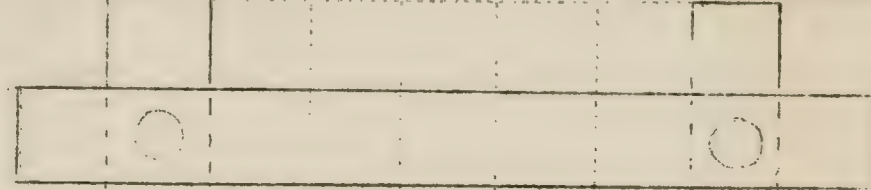
GRADE V.

PICTURE FRAME


MATERIALS: 26" $\frac{1}{2}$ " x $\frac{1}{2}$ " stripwood.
4 Upholsterers nails
8 $\frac{1}{2}$ " Brads. - - 1 piece cardboard 4" x 5".

PROCEDURE

Measure off.
stock. Cut
sandpaper.
Mark
positions.
Nail.



Open at top of frame.

 Bend cardboard.

MANUAL ARTS

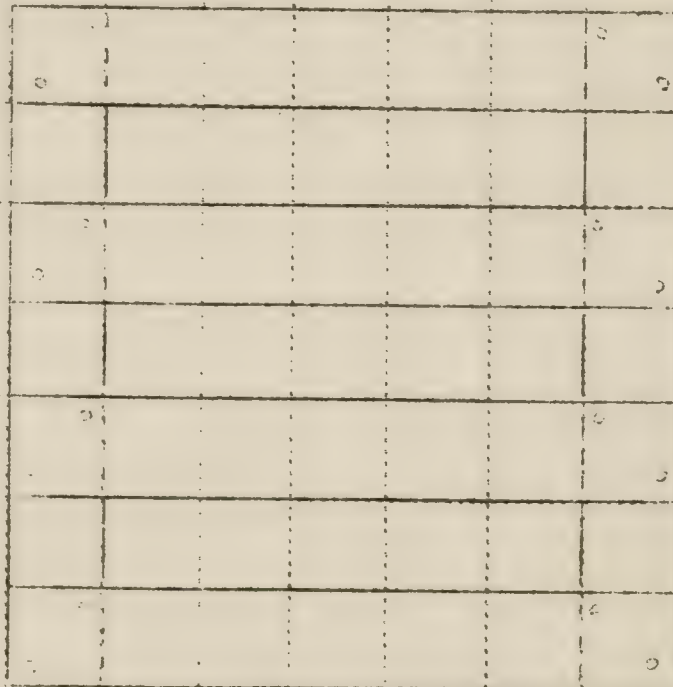
Group 7. Project 3.

GRADE V.

PLANT STAND

MATERIALS:

16" $\frac{1}{2}$ " x $\frac{1}{2}$ " str-
ipwood.
8" $\frac{1}{2}$ " x $\frac{1}{2}$ " "
16 $\frac{1}{2}$ " Brads.



PROCEDURE:

Measure and cut stocks to sizes,
Sandpaper smooth and to neat lengths,
Mark off spaces and nail together.
Sandpaper smooth and paint with wood dye.

MANUAL ARTS

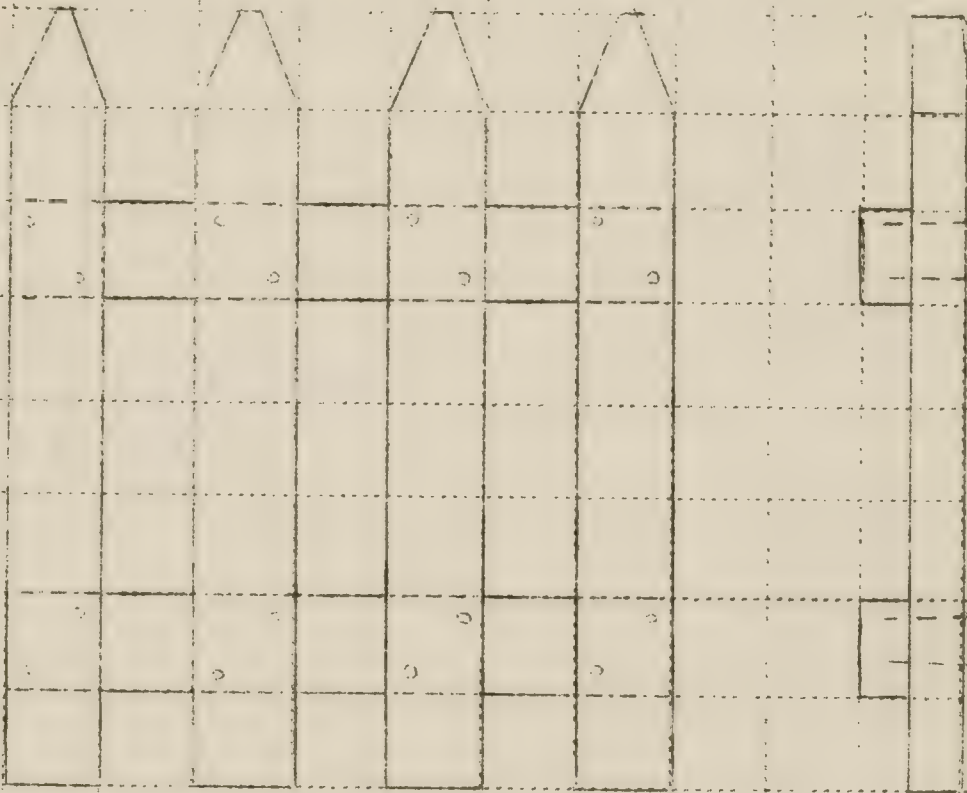
Group 7. Project 3a.

GRADE V.

GARDEN GATE

MATERIAL:

24" $\frac{1}{2}$ " x $\frac{1}{2}$ " stripwood,
16 $\frac{1}{2}$ " Brads.



PROCEDURE:

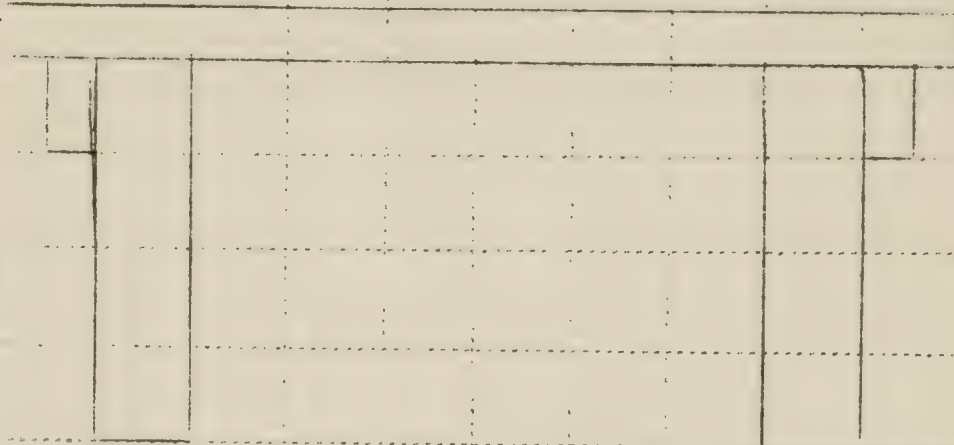
1. Measure and cut all stock to size.
2. Cut tops in cutting box.
3. Sandpaper all to length and smooth.
4. Mark position of pales and nail in place.

MANUAL ARTS

Group 7. Project 4.

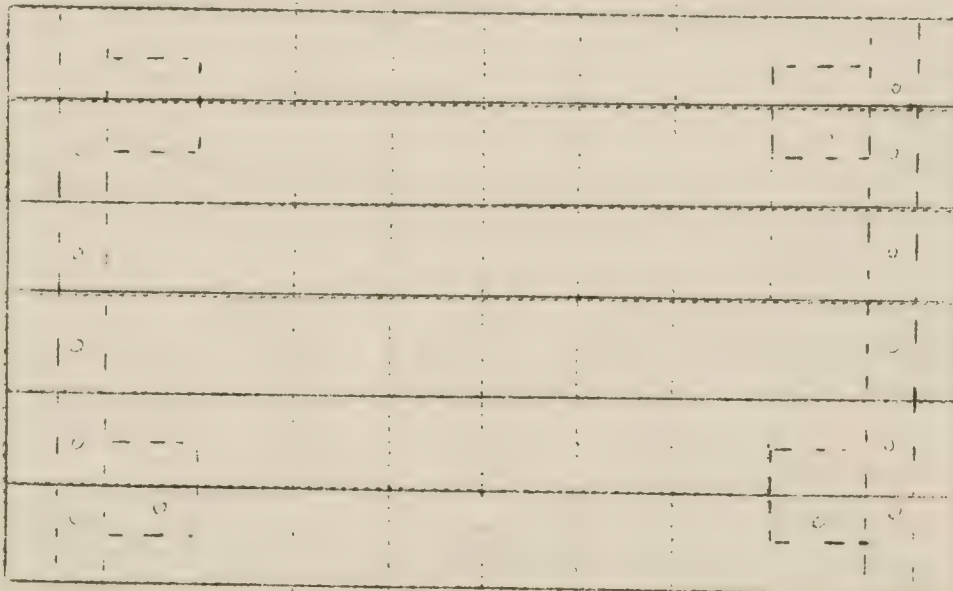
GRADE V.

SMALL TABLE



MATERIAL:

10" $\frac{1}{2}$ " x $\frac{1}{2}$ " stripwood.
36" $\frac{1}{2}$ " x $\frac{1}{2}$ " "
24 $\frac{1}{2}$ " Brads.



PROCEDURE:

Measure and cut all stock to sizes.
Sandpaper to length and smooth.
Nail legs together and then top.

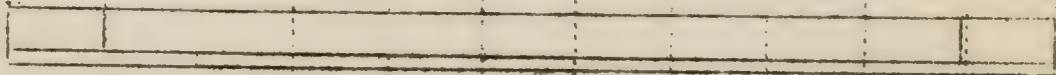
MANUAL ARTS

Group 7. Project 4a.

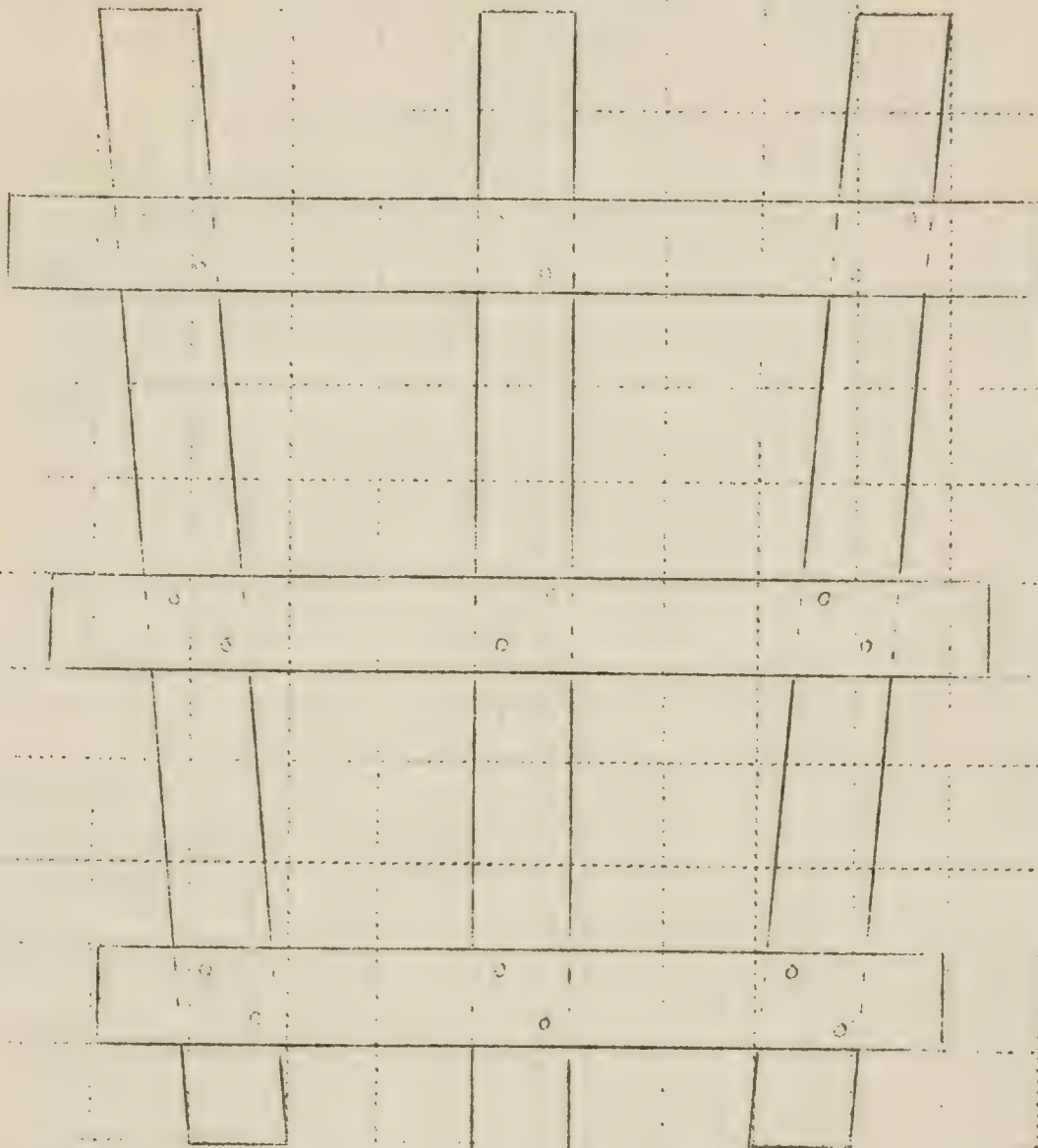
GRADE V.

PUZZLE (Picture or Map)

MATERIAL: 20" $\frac{1}{2}$ " x $\frac{1}{2}$ " stripwood. 7/8" x 5x5 3-ply Veneer.
5" x 5" Light Cardboard. Picture or Map.



- PROCEDURE:
- (1) Prepare stock and sandpaper.
 - (2) Cut cardboard.
 - (3) Glue and nail on strips.
 - (4) Fit 3-ply to proper size.
 - (5) Paste on picture, leave to dry.
 - (6) Cut to shapes indicated.
 - (7) Colour framework to suit taste.

PLANT TRELLIS.MATERIAL:

40" $\frac{1}{2}$ " x $\frac{1}{2}$ " stripwood.
18 $\frac{1}{2}$ " Brads.

PROCEDURE:

Cut, sand and nail together
on drawing.

MANUAL ARTS

Group 7. Project 5a.

GRADE V.

MATERIAL:

24" $\frac{1}{2}$ x $\frac{1}{2}$ strip-
wood.

10 $\frac{1}{2}$ x $\frac{1}{2}$ "

Cardboard 3"x8"

$\frac{1}{8}$ " Brads.

PROCEDURE:

Measure, cut
and sand stock

Glue and nail
to cardboard.

Stain to suit
use

MANUAL ARTS

Group 7. Project 6.

GRADE V.

TOY BOAT

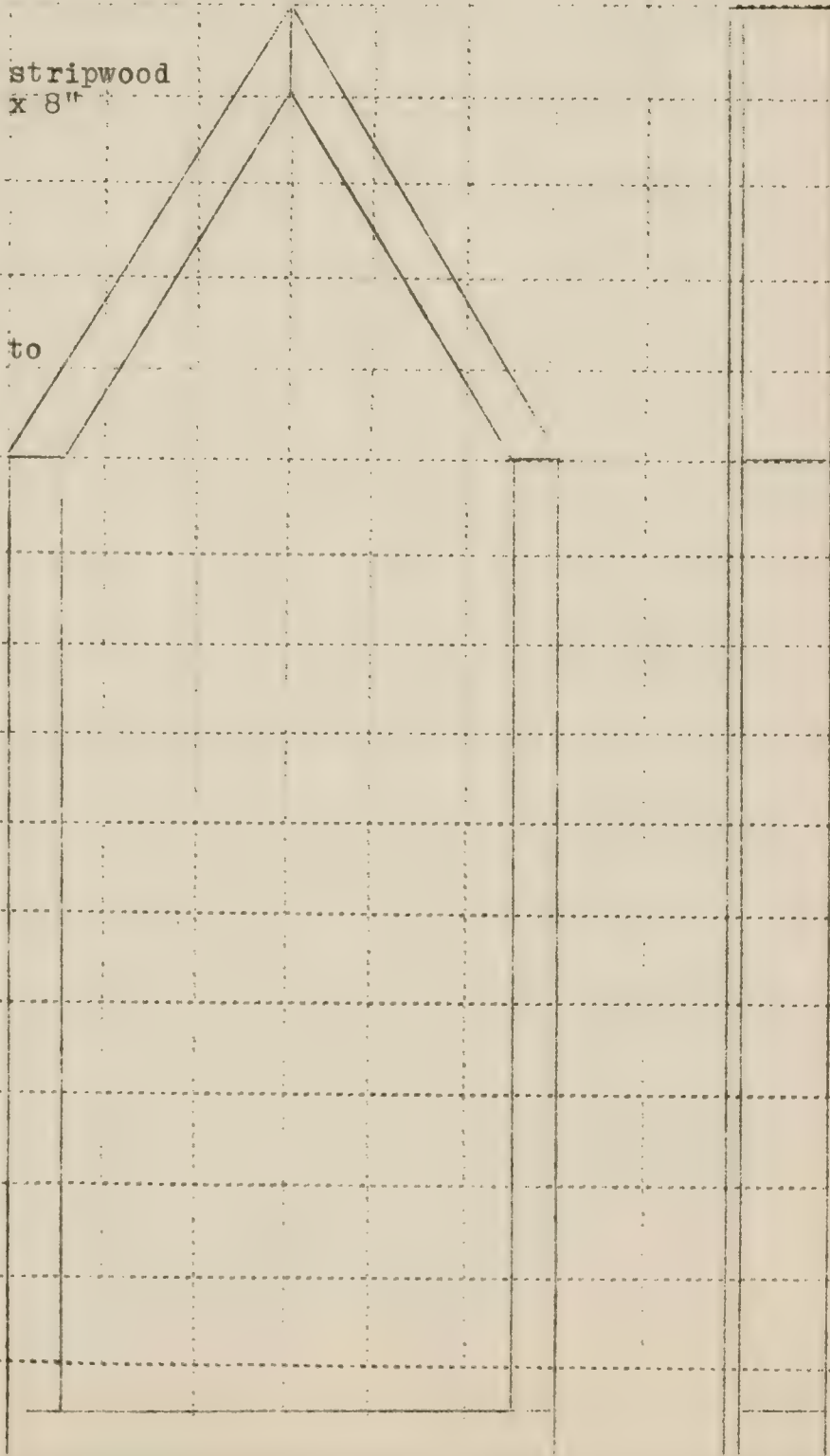
MATERIAL:

24" $\frac{1}{4}$ " x $\frac{1}{2}$ " stripwood
Cardboard 3" x 8"
 $\frac{1}{2}$ " Brads.

PROCEDURE:

1. Cut stock,
sand and fit to
shape on
drawing.

2. Nail
bottom to
sides and
nail
corners.



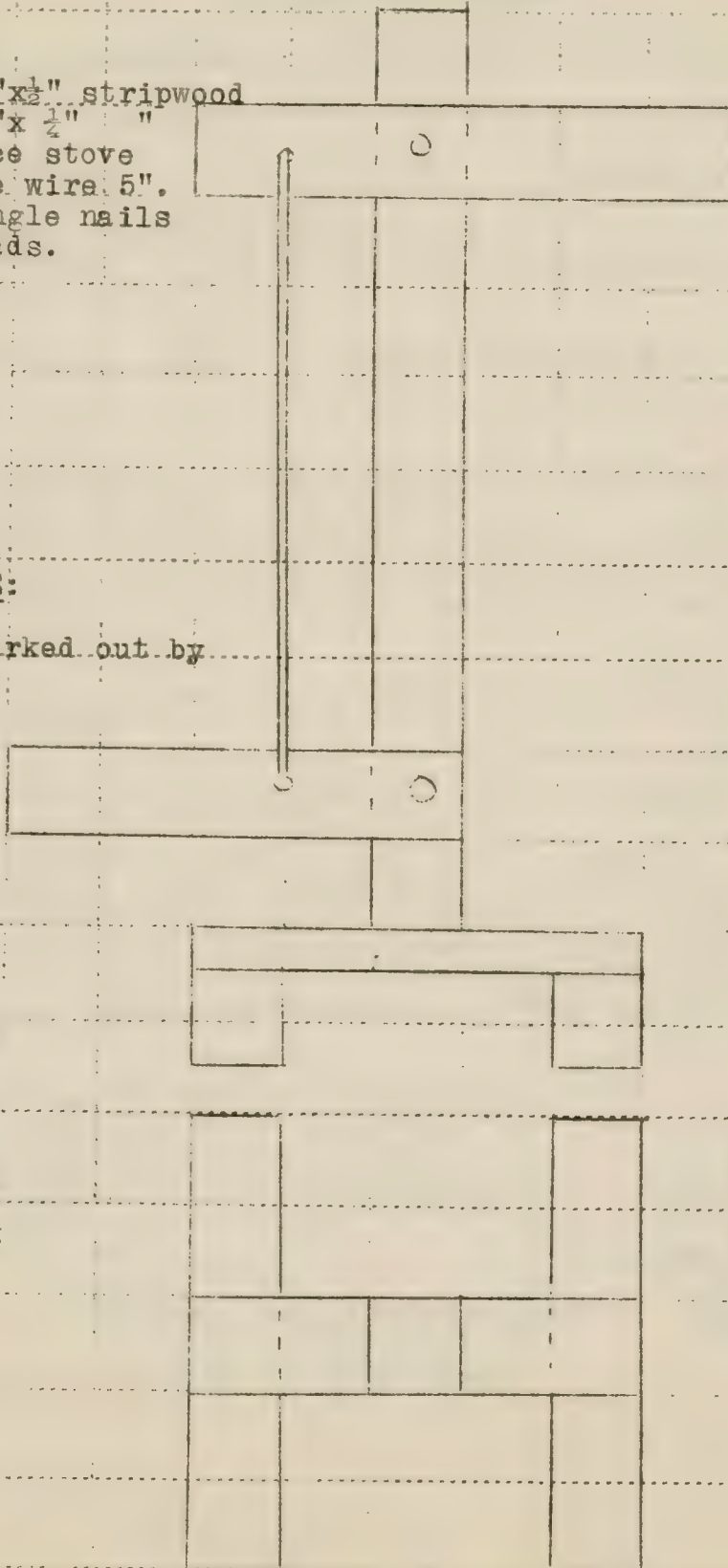
RAILWAY SIGNAL

MATERIAL:

12" $\frac{1}{2}$ " x $\frac{1}{2}$ " stripwood
 9" $\frac{1}{2}$ " x $\frac{1}{2}$ " "
 1 piece stove
 pipe wire 5".
 2 shingle nails
 $\frac{1}{2}$ " Brads.

PROCEDURE:

To be worked out by
 student.



MANUAL ARTS

Group 2-B.

GRADE VI.

SUGGESTIONS TO TEACHERS ON THE DEVELOPMENT OF A PROJECT:

1. Develop the need for the study of a project in textiles by:-
 - (a) Reference to the evolution of clothing of people in different countries.
 - (b) Study in Health and Hygiene.
 - (c) Interest in the Industries of countries studied in Geography.
2. Stimulate the urge to investigate on the part of the pupils.
3. Prepare yourself to be chief advisor.
 - (a) Know where to find illustrative material.
 - (b) Have reference list of books.
 - (c) Advertising material to be written or asked for.
 - (d) Call on home interests where possible - father's occupation often offers valuable information and material.
4. Organize class into groups working on one phase of the project, e.g. "Linen".
 1. Growth and cultivation of Flax for Linen.
 2. Making Flax into Linen Thread.
 3. How thread is woven into cloth - Looms - from early hand looms to Power Machine Looms. Actually set up and use one.
 4. Linen Materials in use - Collection of Samples.
 5. Manufacturing Linen in Canada. (Cobourg and Guelph)
Doukhobours in North Saskatchewan.
 6. Early Machine inventions affecting Textiles.

REFERENCE BOOKS IN TEXTILES AND CLOTHING:

1. "Rambles Among our Industries"
(Cotton, Linen, Wool, Silk) - Blackie & Sons.
2. "How we are Clothed" - Chamberlain.
3. "Around the World with the Children" - Carpenter.
4. "Work and Play in Colonial Days".

MANUAL ARTS

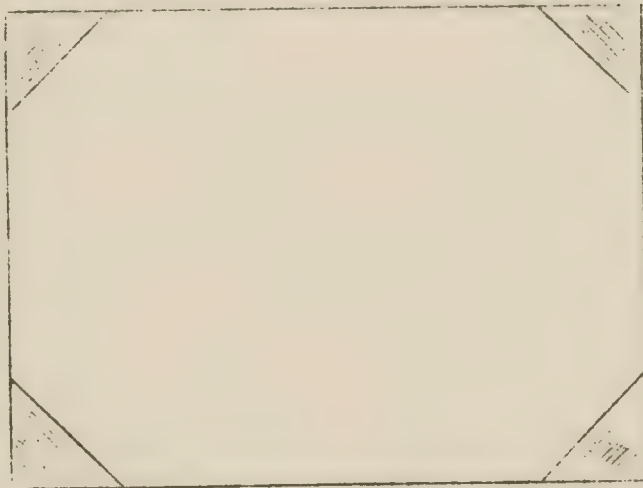
Group 1. Project 1.

GRADE VI

DESK BLOTTER

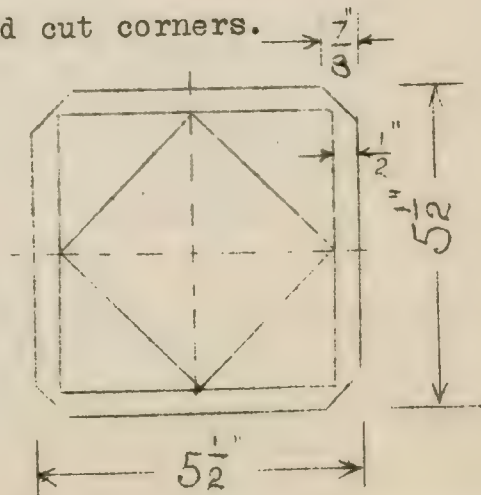
MATERIAL:

Pulpboard, Heavy 9 x 12.
Brown Kraft Cover Paper 10 x 13.
Red Poster Paper Lining 9 x 12.
Binder's Cloth 6" x 6".



PROCEDURE:

1. Lay out Kraft cover to project $\frac{1}{2}$ " all round cardboard base. Cut corners for mitering and paste in place.
2. Prepare material for corners.
3. Lay out a $5\frac{1}{2}$ " square. Mark and cut corners.
4. Fold to lines indicated on drawing.
5. Cut on dotted lines, refold and paste in place.
6. Cut lining paper and paste on back.



MANUAL ARTS

Group 1. Project 2.

GRADE VI

PHOTO FRAME (Cutting a mount with knife)

MATERIALS:

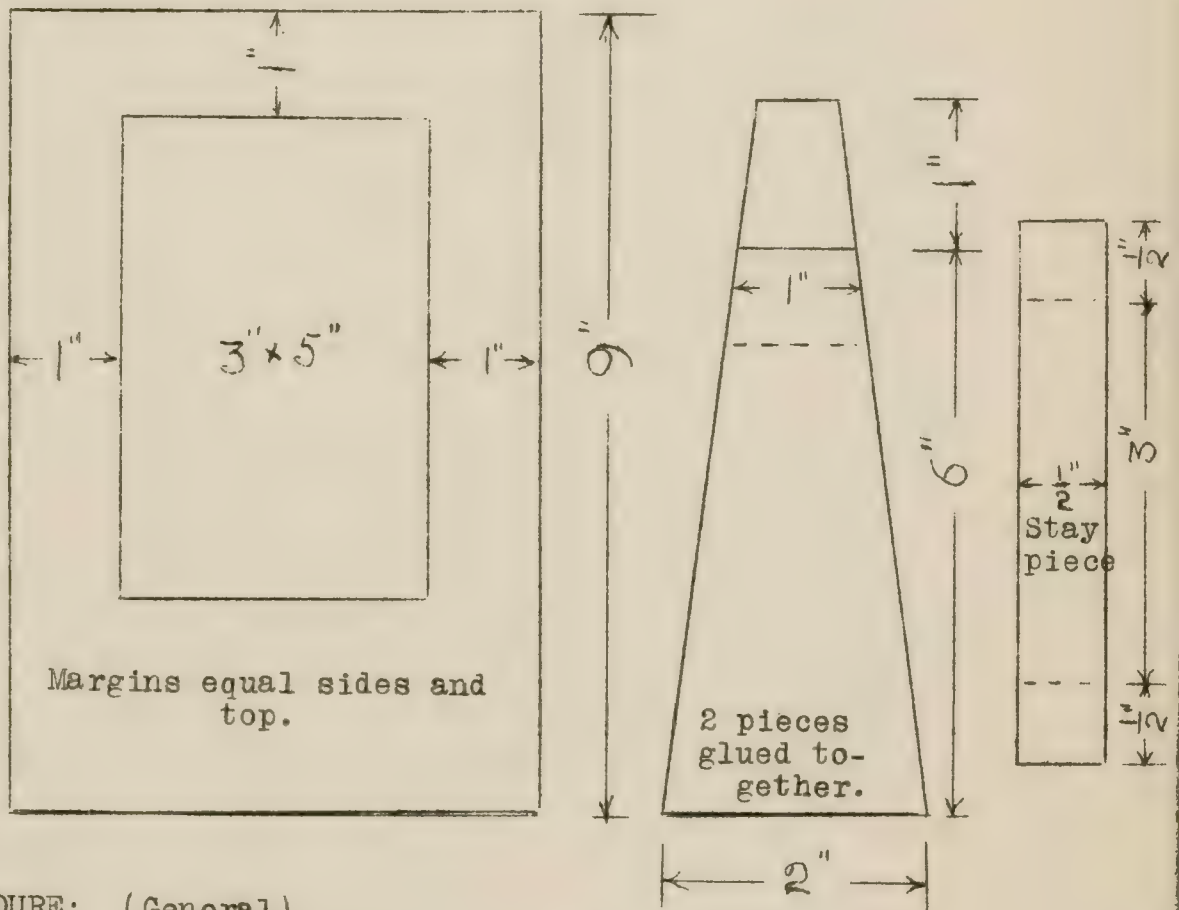
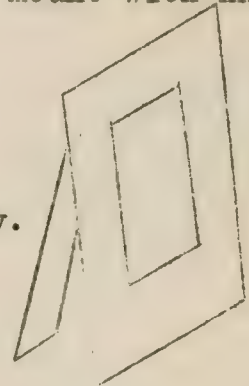
Heavy pulpboard 6"x9" and 2" x 6".

Cover paper 7" x 10".

Lining paper 9" x 12".

Odd pieces of Binder's linen for Hinge and Stay.

Photo's to mount - supplied by children.



PROCEDURE: (General)

1. Mark and cut pulpboard to shape, interior to be cut with knife or old razor blade. Cut back stay.
2. Mark, cut and paste cover paper and lining paper. Leave pocket in back lining if photo is to be removed.
3. Cover back stay, prepare stay tapes, and paste all in place.

MANUAL ARTS

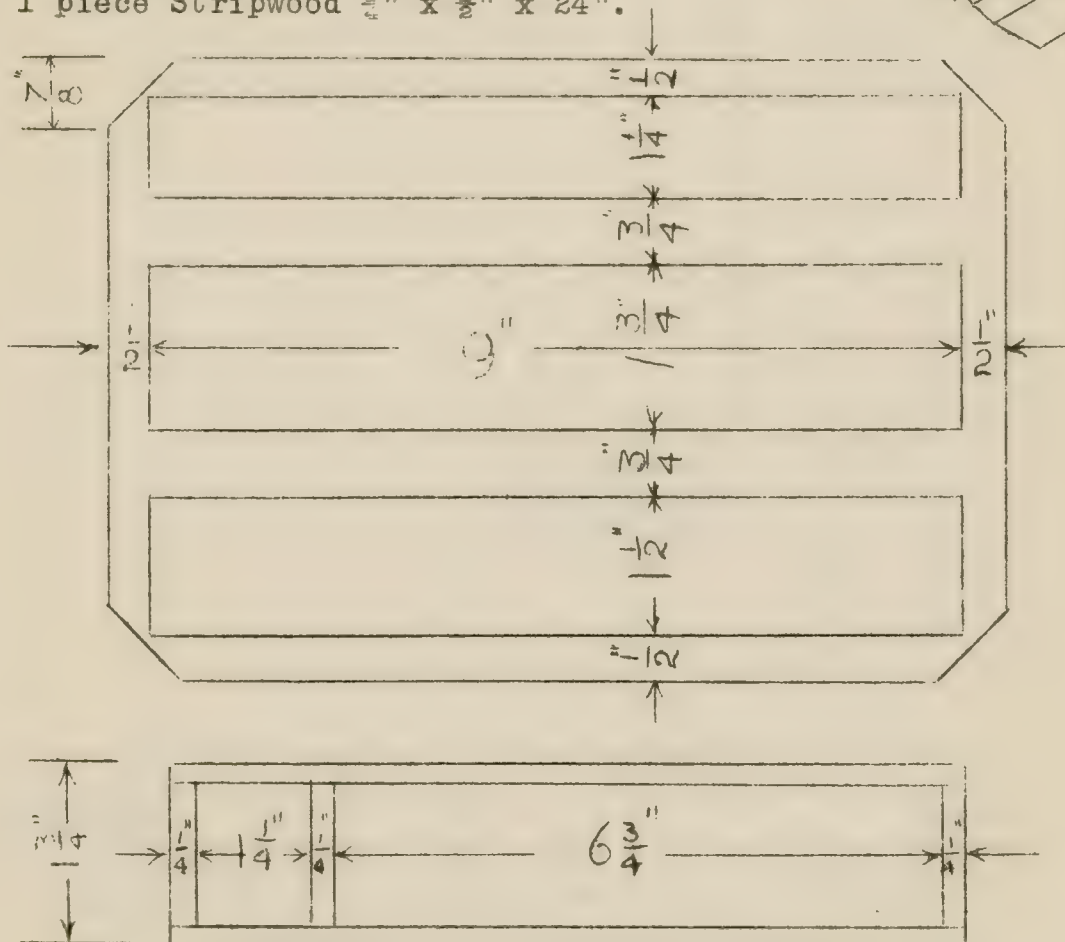
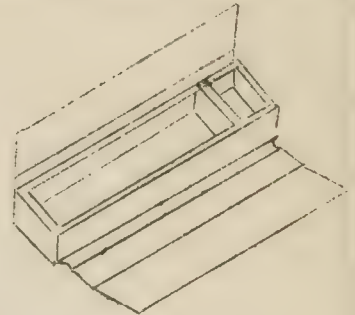
Group 1. Project 3.

GRADE VI

PENCIL CASE

MATERIAL:

- 1 piece pulpboard 6" x 9".
- 1 piece Bookbinders linen 7" x 10".
- 1 piece Inside Lining 6" x 9".
- 1 piece Stripwood $\frac{1}{4}$ " x $\frac{1}{2}$ " x 24".



PROCEDURE:

1. Mark, cut and prepare cards and linen. Paste down and line cover.
2. Cut off, sandpaper, and nail together box.
3. Glue in place and put under a weight till dry.
4. Punch holes and put in place fastener.

STRIPWORK - SWINGMATERIAL:

12" x $\frac{1}{2}$ " x $\frac{1}{2}$ "
stripwood.
3" x $\frac{1}{4}$ " x 2" "
10" x $\frac{1}{4}$ " x 1" "
4" x $\frac{1}{4}$ " x $\frac{1}{2}$ " "

PROCEDURE:

To be worked by
student.

MANUAL ARTS

Group 2a. Project 2.

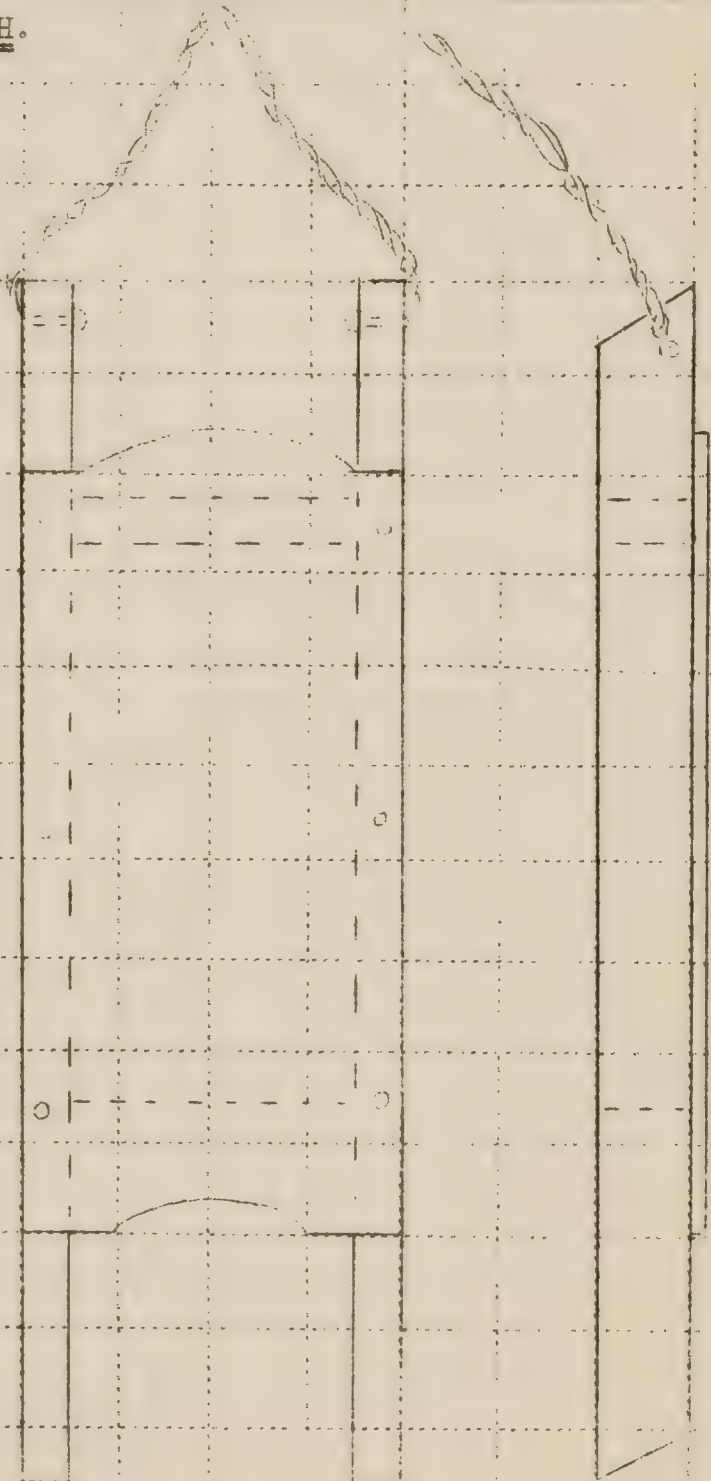
GRADE VI.

STRIPWORK. - TOY SLEIGH.

MATERIAL:

16" $\frac{1}{2}$ " x $\frac{1}{2}$ " strip-
wood.

Cardboard 2" x 5".



MANUAL ARTS

Group 2A. Project 3.

GRADE VI

STRIPWORK

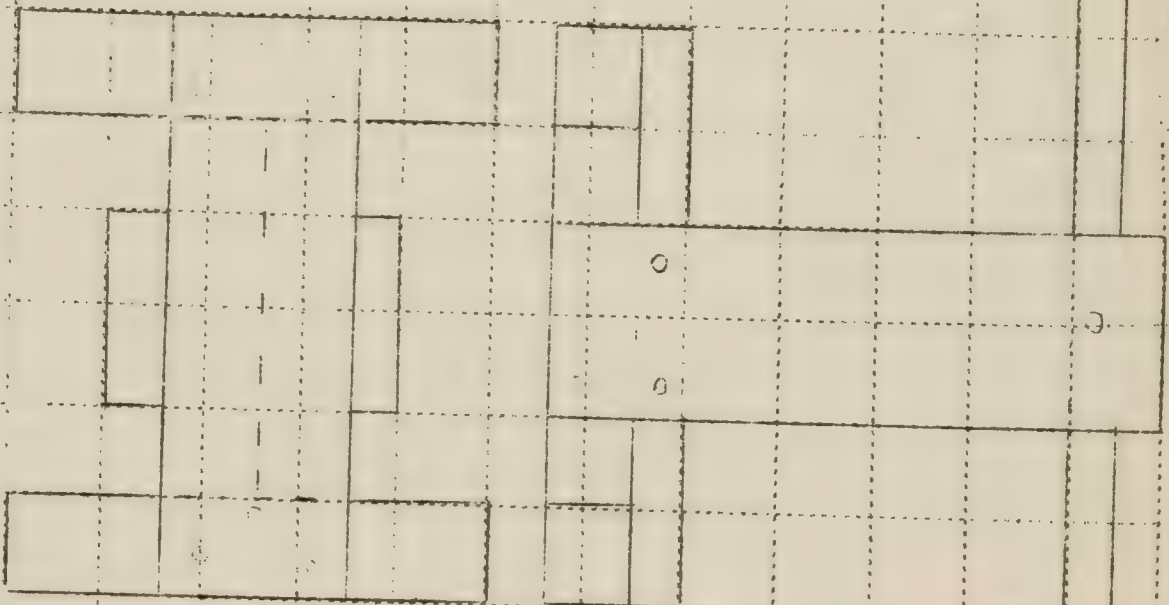
TEETER TOTTER

MATERIAL:

12" $\frac{1}{4}$ " x 1" stripwood.

8" $\frac{1}{2}$ " x $\frac{1}{2}$ " "

Nails to suit job.



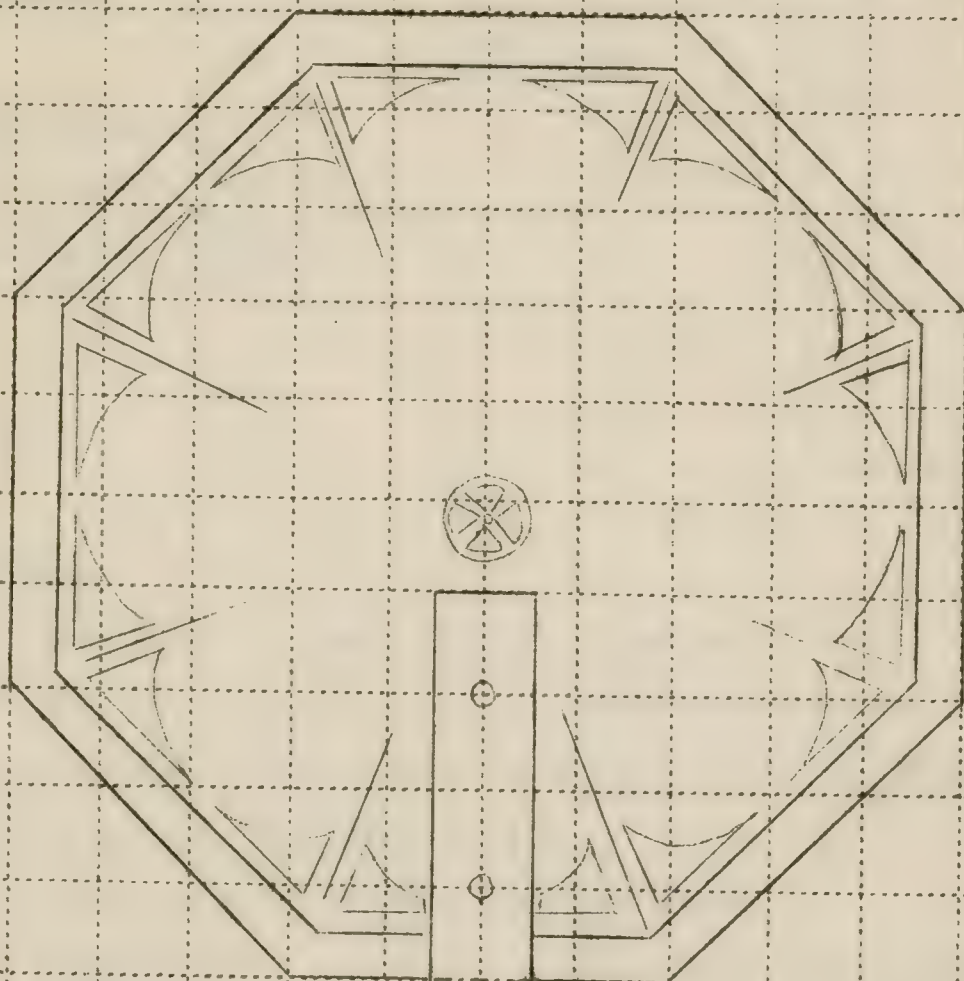
Group 2A. Project 4.

MAJAL ARIS

GRADE VI

STRIPWORK.

FAN



MATERIAL:

12" $\frac{1}{4}$ " x $\frac{1}{2}$ " Stripwood.

Cardboard 5" square.

MANUAL ARTS

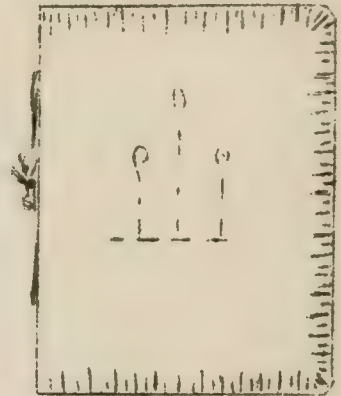
Group 2C. Project 1.

GRADE VI. Needlework.

NEEDLE BOOK.

CLASS MATERIAL:

Java Canvas 4" x 6".
Flannel or Flannelette $3\frac{1}{2}$ " x $5\frac{1}{2}$ ".
Thimbles. Scissors.
Needles. Wool.



PROCEDURE:

1. Clip point off each corner of Canvas
2. Select colors and blanket stitch around Canvas.
3. Plan and work a design for cover in running or back stitch.
4. Pink edges of Flannelette.
5. Place in cover $\frac{1}{4}$ " from edge all round.
6. Mark $\frac{3}{4}$ " above and below centre back and sew flannelette in position.
7. Tie at back.

MANUAL ARTS

Group 2 C. Project 2.

GRADE VI.
Needlework.

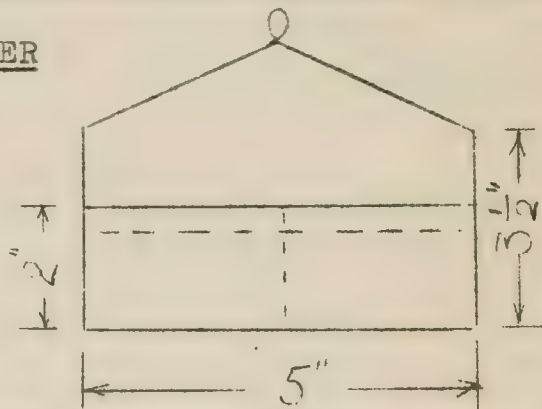
TICKET HOLDER

CLASS MATERIAL:

Java Canvas 5" x 7".

Scissors. Thimbles.

Needles. Wool.



PROCEDURE:

1. At one end of canvas measure down $1\frac{1}{2}$ " at each side and cut to form point at centre.
2. Overhand across bottom end. Then back again forming cross-stitch.
3. Fold up 2" at bottom.
4. Overhand edges together to form pocket and continue all round.
5. Overhand back again, forming cross-stitch.
6. Down centre of pocket thus made make row of backstitch, dividing into two compartments.
7. At top make loop 2 or 3 thicknesses of thread, then blanket stitch around threads, arranging stitches close together to form strong loop.
8. Decorate suitably if desired.

MANUAL ARTS

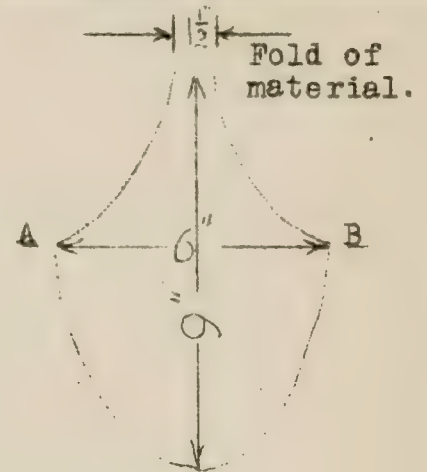
Group 2 C. Project 3.

GRADE VI.
Needlework.

BAG

CLASS MATERIAL:

Felt.
Pattern as sketch.
Scissors. Thimbles.
Needles. Thread.
Embroidery thread.



PROCEDURE:

1. From pattern cut bag from felt.
2. Blanket stitch from A. & B. along each side of handle.
3. Pin lower halves of bag together. Baste.
4. Blanket stitch the two sides together from A. around to B.

N.B. Size of bag may be varied to suit purpose.

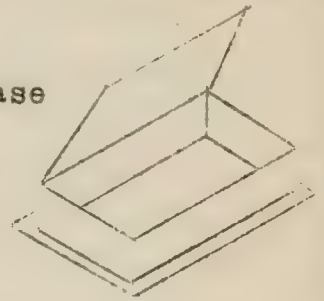
MANUAL ARTS

Group 3. Project 2 A.

GRADE VI.

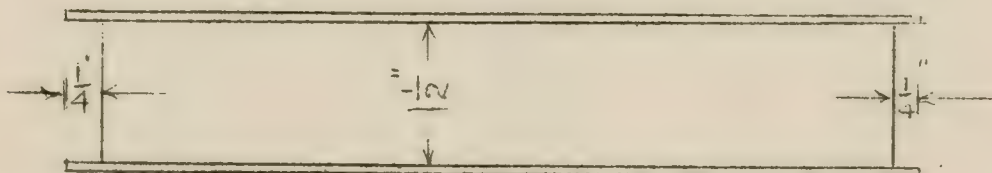
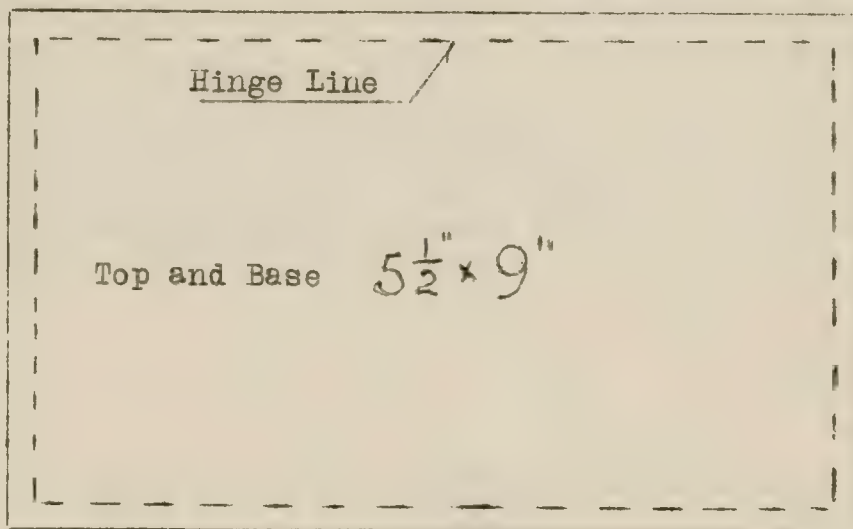
HANDKERCHIEF BOX

(Overhanging base
and top)



MATERIAL:

- Binder's Linen
- 2 pieces of 9" x 12" Pulpboard (heavy)
- 1 piece Cover Paper 9" x 12".
- 1 piece Lining Paper 9" x 12".



SPECIFICATIONS:

Box to be edged on all corners with binders linen and covered inside and out with coloured papers. Lid to be hinged on back and reinforced with linen inside and out.

Inside corners reinforced with gummed linen before covering.

A suitable design to be applied in colour.

NOTE: Student to work out his own method of procedure.

MANUAL ARTS

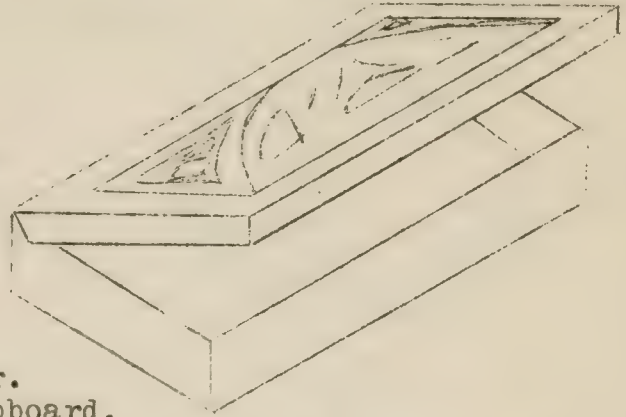
Group 3. Project 2 B.

GRADE VI

BOX (With hinged lid and edge)

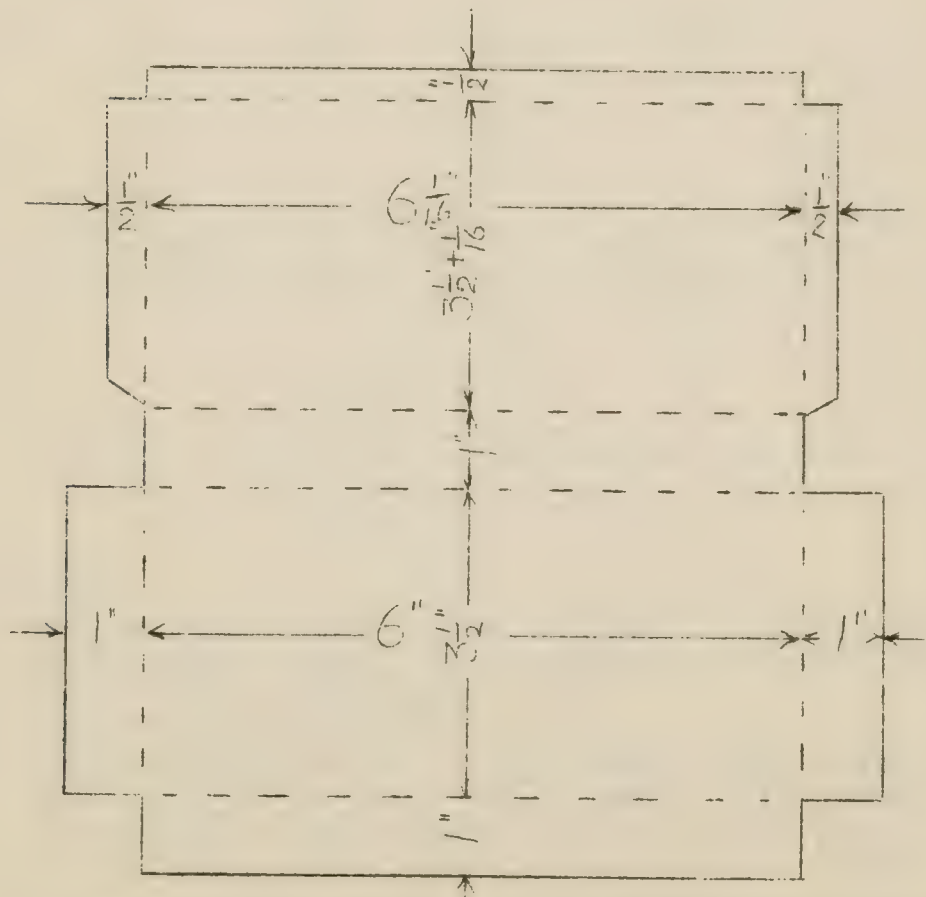
MATERIAL:

Light pulpboard 9" x 12"
Inside cover 9" x 12"
Outside cover 9" x 12"
Rule, pencil, paste, scissors.
Book Muslin $\frac{3}{4}$ " x 6".



PROCEDURE:

1. Mark out pattern. Cut pulpboard and lining paper.
2. Paste lining paper on pulpboard.
3. Score, bend and paste on corner reinforcing outside box.
4. Reinforce hinge with book muslin.
5. Mark out cover paper, paste on and complete box.
6. Design cover in art period.



MANUAL ARTS

Group 3. Project 3.

GRADE VI.

ART ROOM BRUSH HOLDER

(Teach how to describe
an hexagon)

MATERIAL:

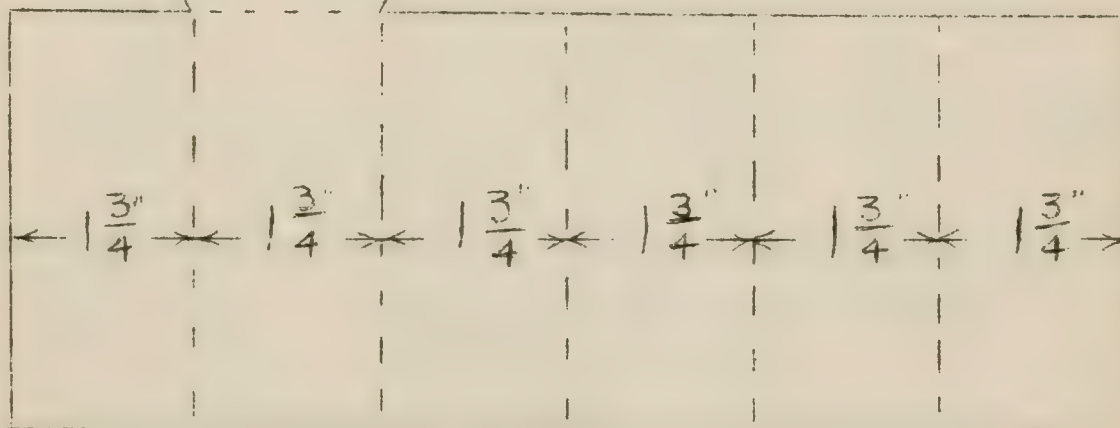
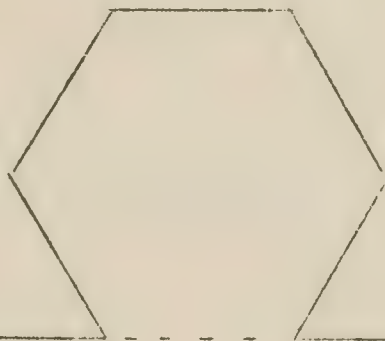
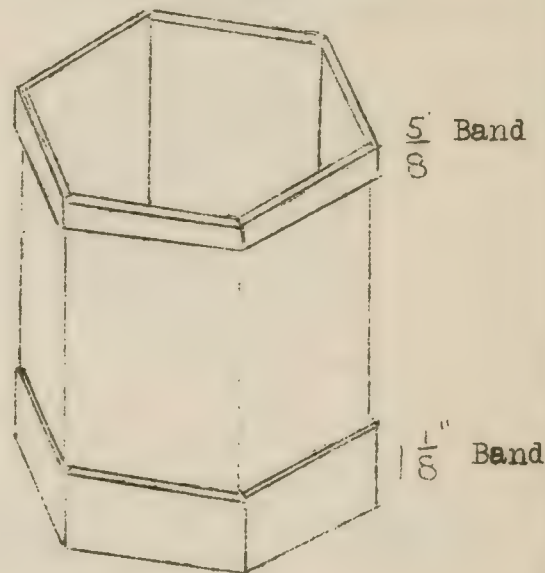
Heavy pulpboard 5" x 11".
" " 4" x 4" .

Head Band $\frac{5}{8}$ " x 12"

Base Band $1\frac{1}{8}$ " x 12"

Cover Paper 9" x 12".

Lining Paper 9" x 12".



PROCEDURE:

1. Lay out sides and bottom, cut and score for folds.
2. Mark inside lining, cut and paste on before bending up sides into final shape.
3. Line bottom and paste in place.
4. Mark and cut top and bottom band pieces, score, fit and glue in place, using elastic bands to hold until set.
5. Cut outside cover paper to size. Attach band covers first.
6. Paste all in place and design panels and bands.

MANUAL ARTS

Group 3. Project 4.

GRADE VI.

COLLAR BOX (Circular Construction)

MATERIAL:

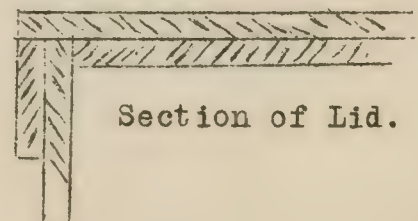
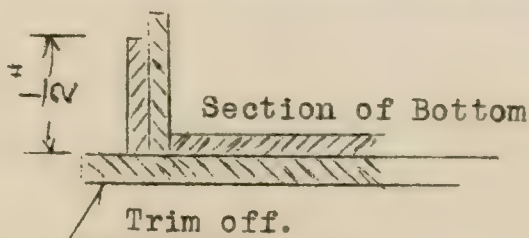
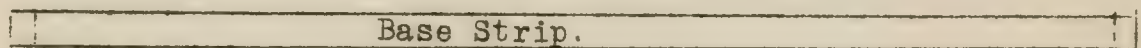
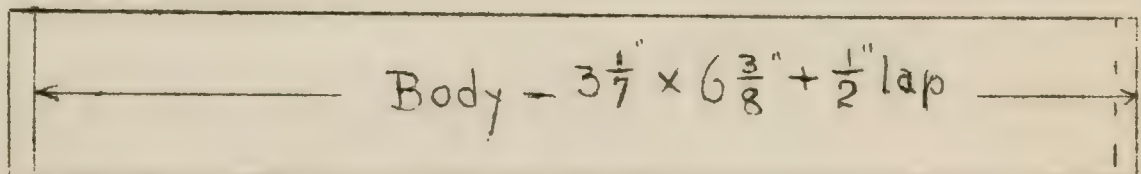
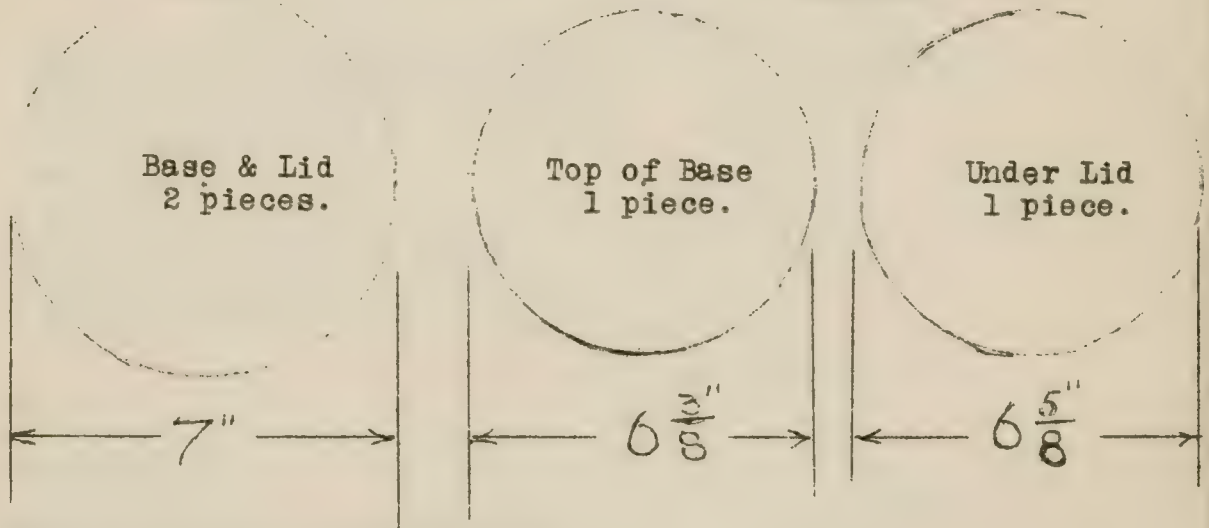
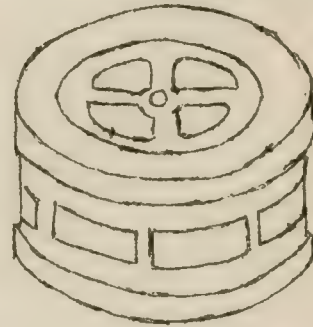
Pulpboard. (Sugar Crisp Corn Flakes Carton bends well.
Bookbinders linen. Canadian Postum Co.)
Glue - Linen tape.

PROCEDURE:

To be worked out by teacher on
Blackboard.

REFERENCE:

Cardboard Modelling.
Dixon & Browning. Page 85.



MANUAL ARTS

Group 4 A. Project 1 A.

GRADE VI. GIRLS

MITRED CORNER

(1)

MATERIAL:

Paper 4" square (or Cloth)
Ruler. Pencil.
Scissors. Pins.
Needles. Thread.

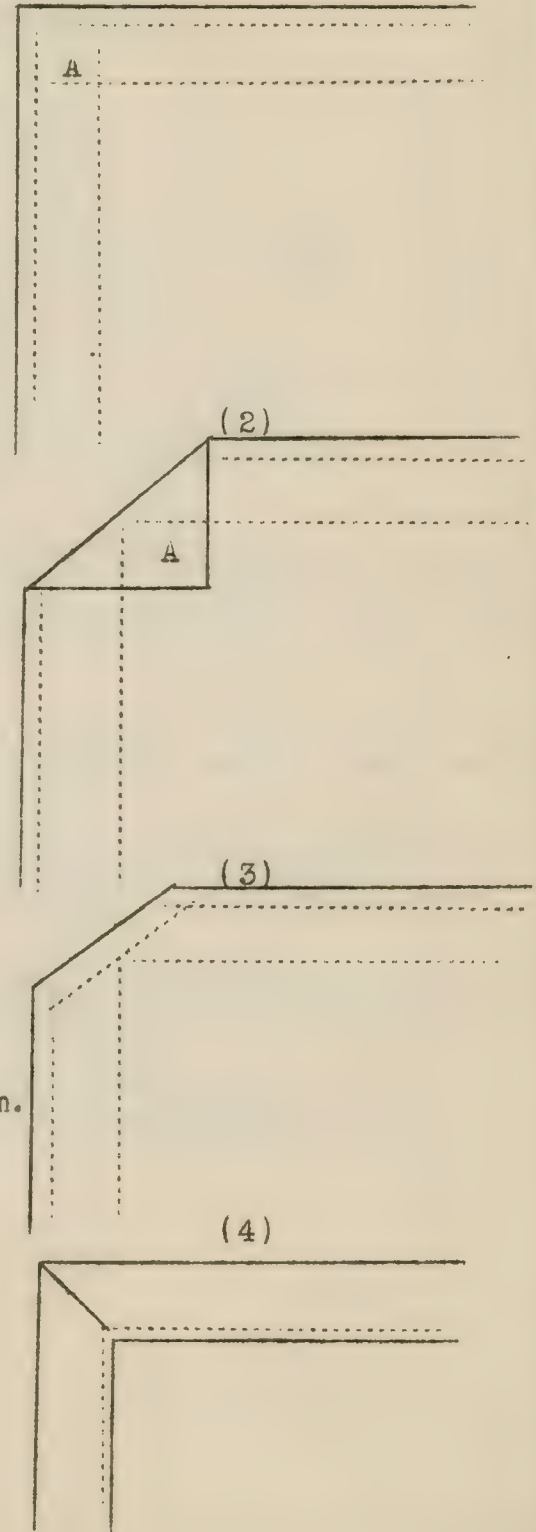
PROCEDURE:

1. Along 2 sides of square fold hem with first fold $\frac{1}{4}$ " - 2nd. fold $\frac{1}{4}$ ". Crease and open. (Fig. 1.)
2. Turn corner A. down and crease edge where second folded edges cross. (Fig. 2.)
Open back and cut $\frac{1}{4}$ " in from crease. (Fig. 3)
3. Turn first folds.
Turn second fold to form hem.
Pin and baste. (Fig. 4)
Hem.

USES AND FINISH:

Used on corners for tray cloths, table covers, etc.

Finish corner by whipping edges down or turn to wrong side - make seam on $\frac{1}{4}$ " fold - then press and turn to right side before laying hem.

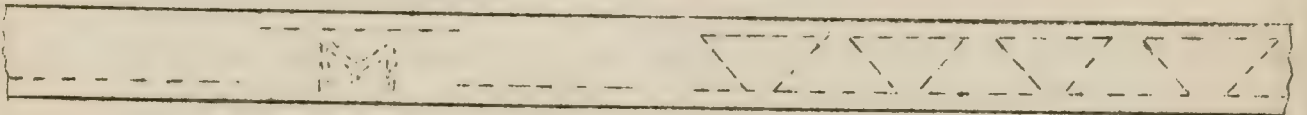
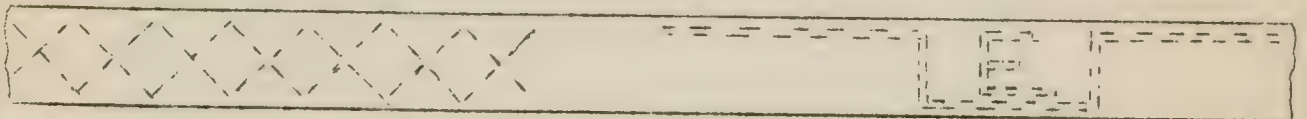


MANUAL ARTS

Group 4 A. Project 3 a.

GRADE VI. GIRLS

SUGGESTED BORDERS FOR TOWEL ENDS



Border designs should be simple so that they may be completed in one or two lessons.

The making of individual designs should be encouraged but it is better to copy a good design than use an unsuitable one of the student's own work.

Not more than two colours should be used and these carefully chosen with reference to colour harmonies already understood.

Above all, insist upon correct use of thimble and needle, as well as correct position of both student and material for needlework.

MANUAL ARTS

Group 4 A. Project 1 b.

GRADE VI. GIRLS

SQUARE-CUT CORNERS

CLASS MATERIAL:

Paper 4" x 4"
Ruler. Pencil.
Scissors.
Pins. Needles. Thread.

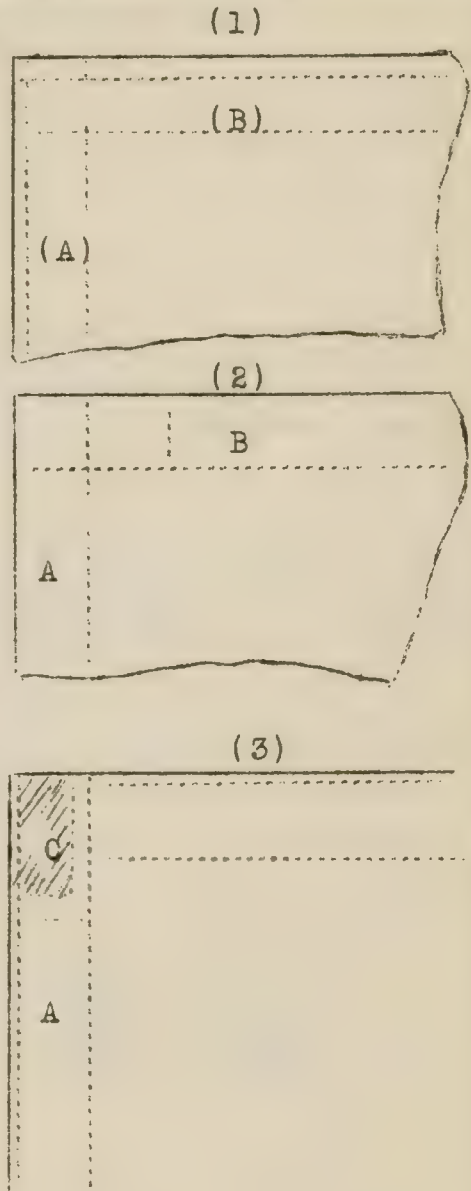
PROCEDURE:

1. Fold hems along adjacent edges
1st. fold $\frac{1}{4}$ " - 2nd. fold 1".
Open. Fig. (1).
2. Fold hem on side A.
Fold hem on side B. - corner
lapping over side A.
3. Mark on hem A. where B. overlaps
on it. (Fig. 2). Open out.
4. Mark section (C) in hem A., $\frac{1}{4}$ " in
from mark. (Fig. 3) and second fold
of hem A. Cut away.
5. Refold hems and baste.

USES:

To remove surplus material where
hems overlap.

Used chiefly on serviettes, tray
cloths, handkerchiefs and articles
with fairly narrow hems - where mitred
corner is not used.



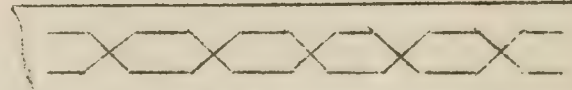
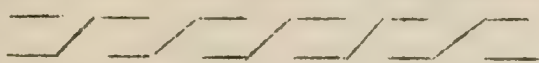
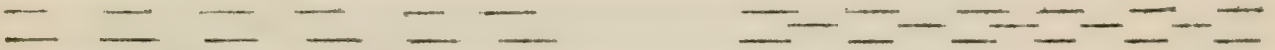
MANUAL ARTS

Group 4 A. Project 1 c.

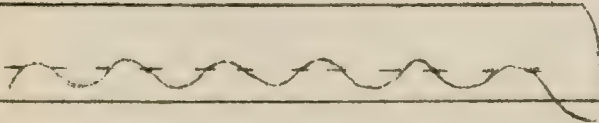
GRADE VI. GIRLS

Simple stitches arranged as Border and Hem Decorations.

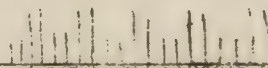
(1) Even Basting.



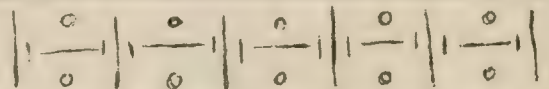
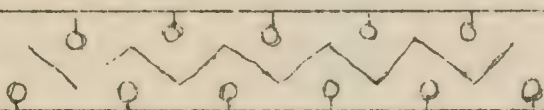
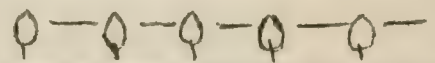
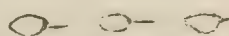
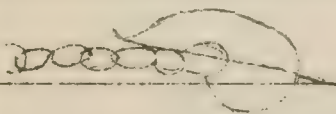
(2) Running Stitch.



(3) Blanket Stitch



(4) Chain Stitch



MANUAL ARTS

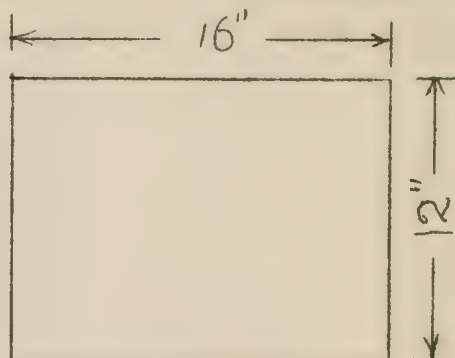
Group 4 A. Project 1 D.

GRADE VI. GIRLS

TRAY CLOTH & SERVIETTE

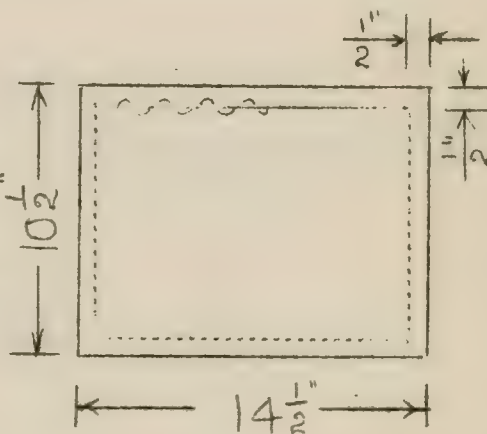
CLASS MATERIAL:

Unbleached cotton 12" x 16".
Needles. Thimbles.
Scissors.
Embroidery Thread. Cotton #50.
Pins.



PROCEDURE:

1. Straighten edges of material and trim.
2. Lay $\frac{1}{2}$ " hem all round 1st. fold = $\frac{1}{4}$ ", second fold $\frac{1}{2}$ ".
3. Prepare for square-cut corners at each corner.
4. Pin and baste hem in place.
5. Secure hem in position by decorative stitchery and coloured embroidery threads previously decided upon.
6. Overhang hem ends at each corner.
7. Press.



N.B. Serviettes may be made from unbleached cotton 12" x 12" in precisely the same manner, Using the same decorative stitches and colours, the two pieces form a usable set.

MANUAL ARTS

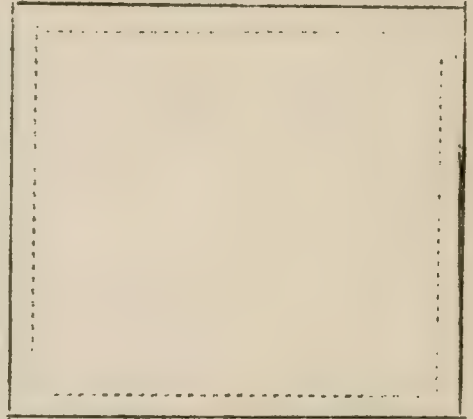
Group 4 A. Project 2.

GRADE VI. GIRLS

HANDKERCHIEF

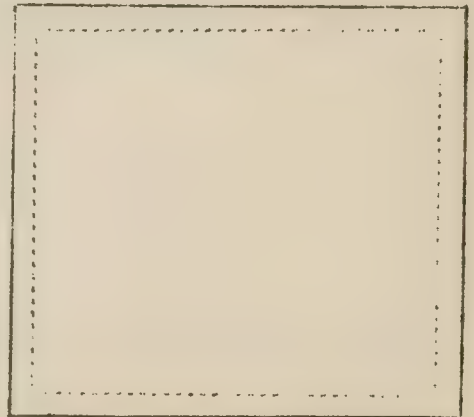
CLASS MATERIAL:

Coloured mull 12" x 12"
Thimbles. Needles.
Pins. Thread.
Embroidery thread.
scissors.



PROCEDURE:

1. Straighten edges of material. Trim.
2. Lay narrow hem evenly all round (in fine materials corners overlap without too much bulk so cutting away is not necessary).
3. Baste.
4. Secure with running stitch in thread to match or fine white thread.
5. Press and fold.



N.B.

Decorative stitchery, combined with running stitch, may be used on a second model.

MANUAL ARTS

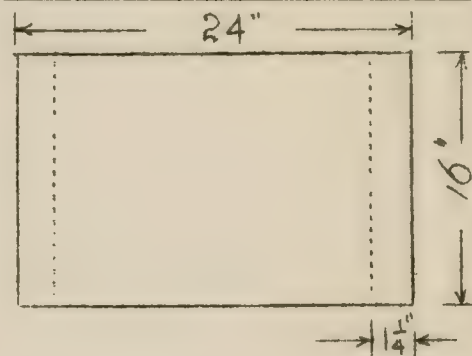
Group 4 A. Project 3 b.

GRADE VI. GIRLS

TOWEL

CLASS MATERIAL:

Huckaback $\frac{3}{4}$ yd. 16" wide
Scissors. Thimbles. Needles.
Cotton No. 50.
Embroidery thread.



PROCEDURE:

1. Straighten material. Trim.
2. Lay hem $1\frac{1}{4}$ " wide on each end.
3. Baste.
4. Hem.
5. Overcast ends of hems.
6. Decorate with simple border designs in colour - or initial.
7. Press.

N.B. This model can well be linked with lessons on health and hygiene.

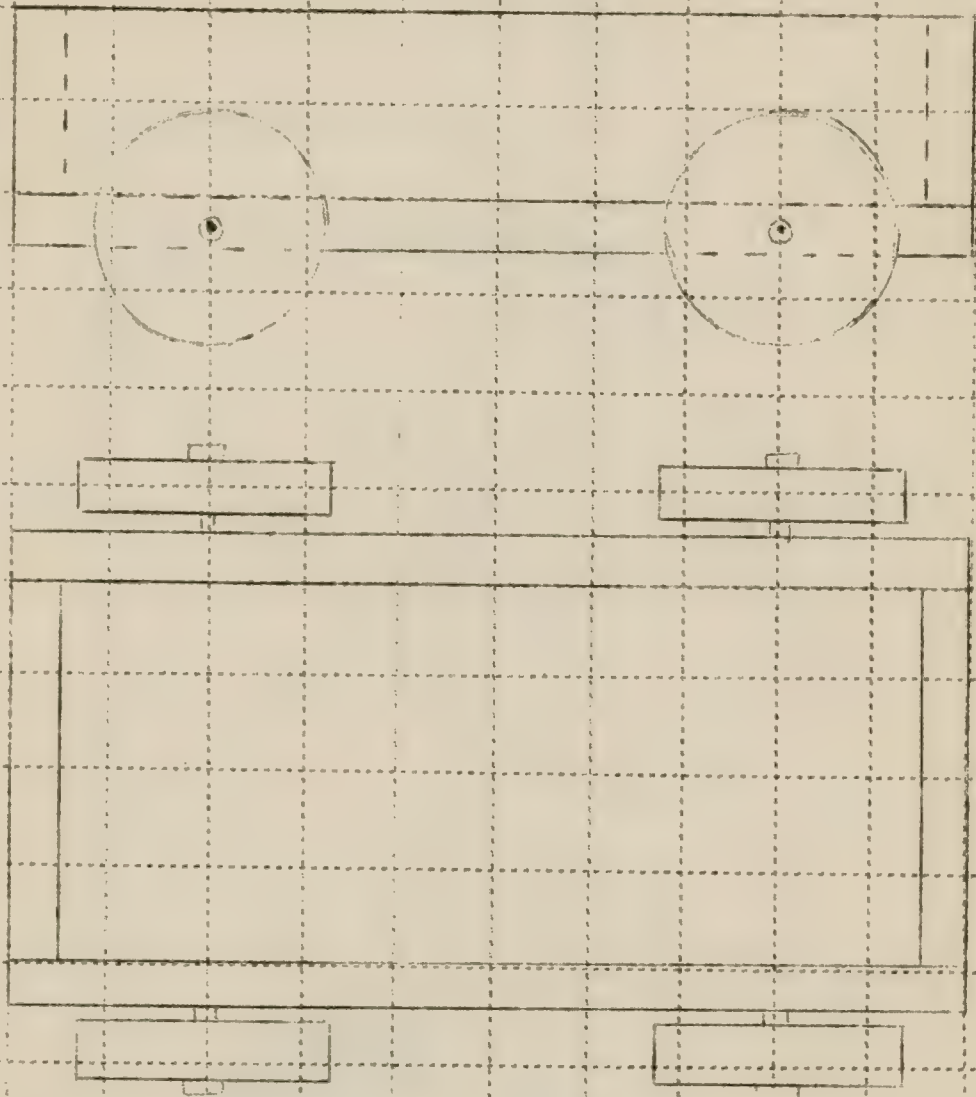
A study of materials suitable for towels is desirable in talking of towels for various uses, also properties of cotton and linen for these purposes.

MANUAL ARTS

Group 4 B. Project 1.

GRADE VI. STRIPWORK

TOY WAGON



MATERIAL:

16" $\frac{1}{4}$ " x 1" stripwood.
 $\frac{1}{4}$ " x $2\frac{1}{2}$ " x 6" "
2" of $1\frac{1}{4}$ " Round.

MANUAL ARTS

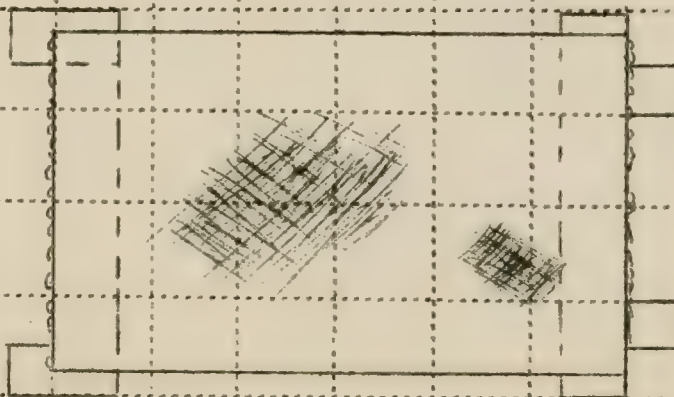
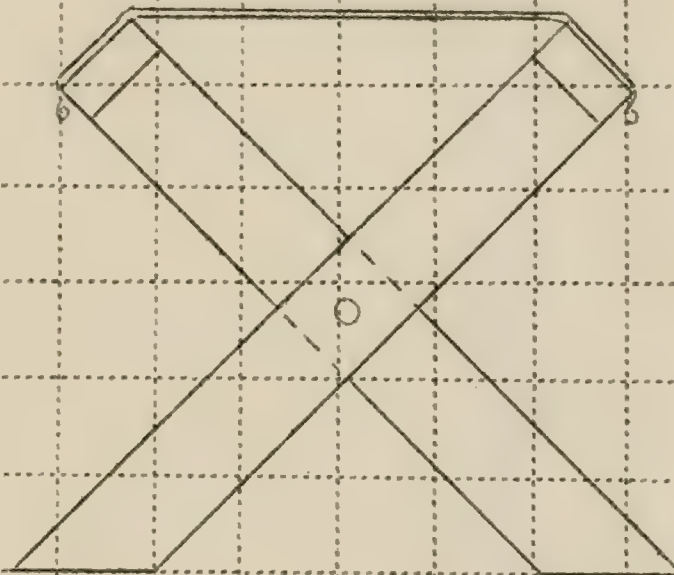
Group 4 B. Project 1 a.

GRADE VI. STRIPWORK

CAMP STOOL

MATERIAL:

20" $\frac{1}{4}$ " x $\frac{1}{2}$ " stripwood.



MANUAL ARTS

Group 4 B. Project 2.

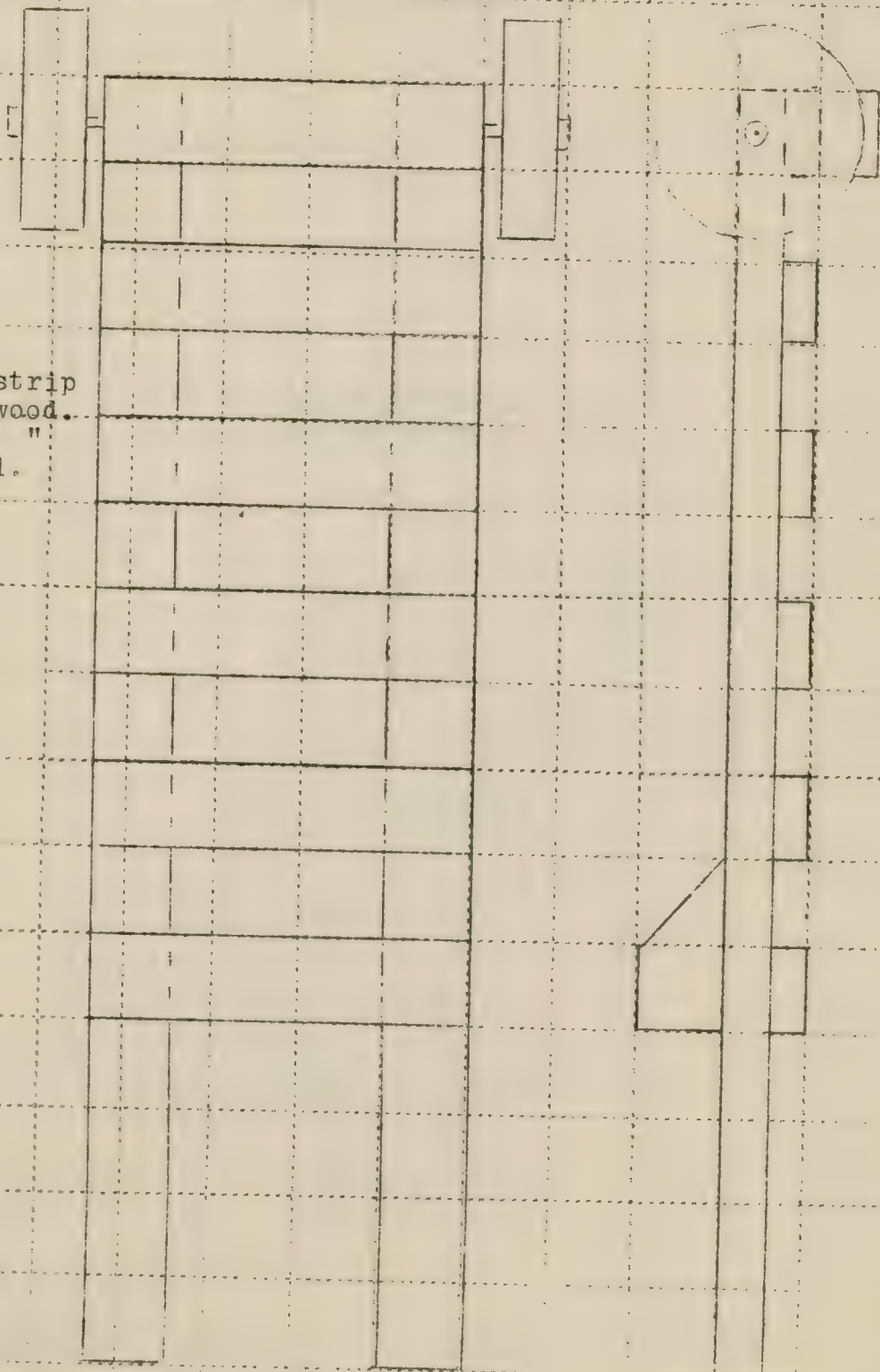
GRADE VI.

PORTER'S TRUCK

STRIPWORK

MATERIAL:

40" $\frac{1}{2}$ " x $\frac{1}{8}$ " strip
wood.
4" $\frac{1}{8}$ " x $\frac{1}{8}$ " "
1" $1\frac{1}{4}$ " Round.



MANUAL ARTS

Group 4 B. Project
2 a.
Material & procedure
to be worked out by
pupil

GRADE VI.

STRIPWORK

Cardboard Bottom
glued in place.

Simple Decoration
on Bottom.

4 ft. $\frac{1}{2}$ "x1"x1"
nailed and glued.

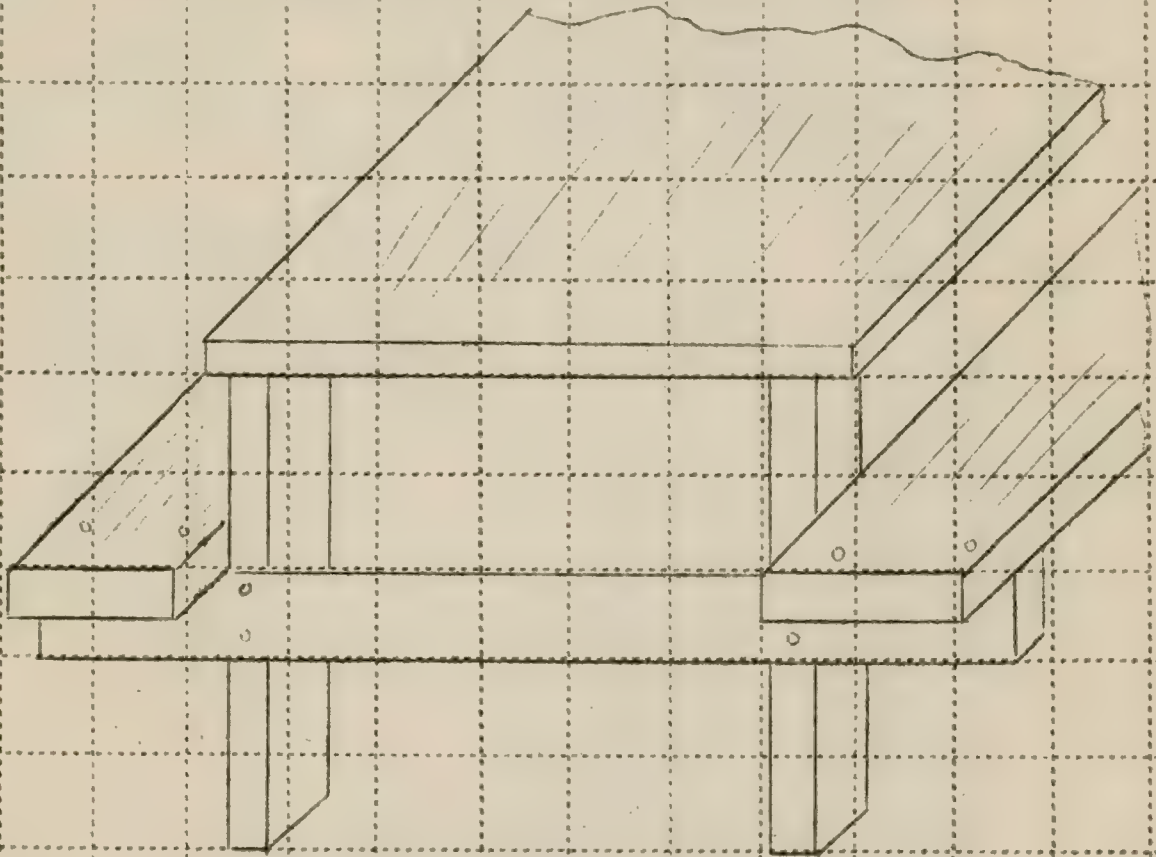
MANUAL ARTS

Group 4 B. Project 3 a.

GRADE VI. STRIPWORK.

CAMP TABLE

Pupil to use his own size and method of construction.



Suggested Projects.

Stop and Go Signal.
Road signs.
Bulletin Board
Bathing Float
Tent Frame
Steam Crane
Box Car
Piano
Chair

Hudson Bay Fort
Picket Fence
Barn
Silo
Well Windlass
Wheel Barrow
Model Fireplace
Bed
Standing lamp

Parallel Bars.
Vaulting Horse
Trapeze Rings.
Garage
Railway Station
Wharf
Bridges.

Note:- The need should suggest the object to be made.

MANUAL ARTS

Group 5. Project 1.

GRADE VI

DRAWING PORTFOLIO

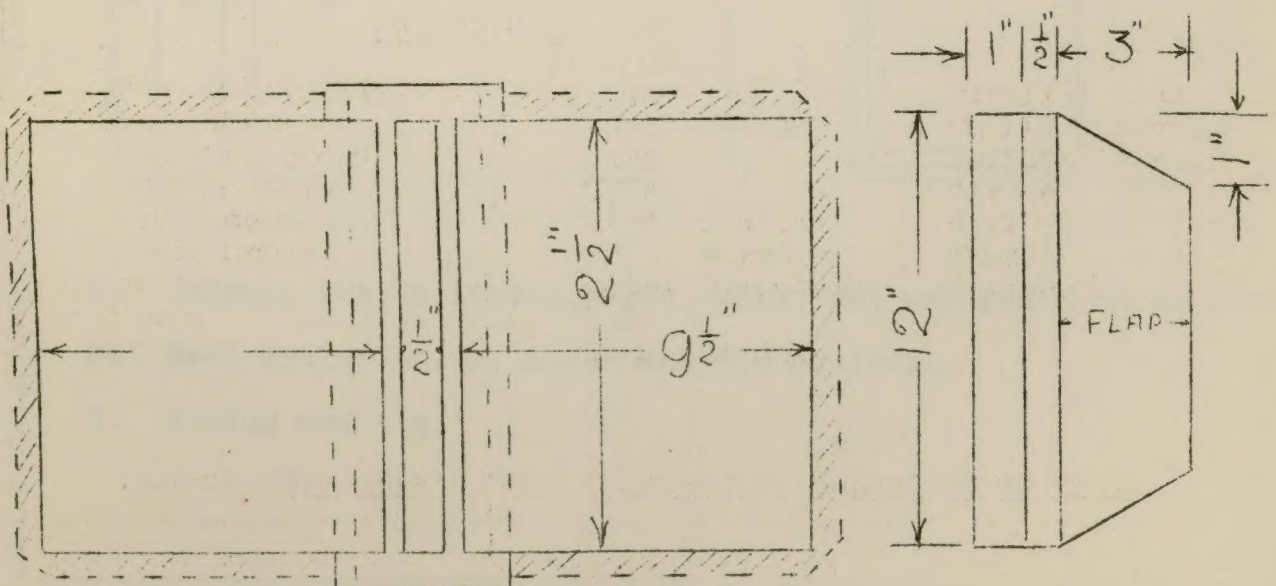
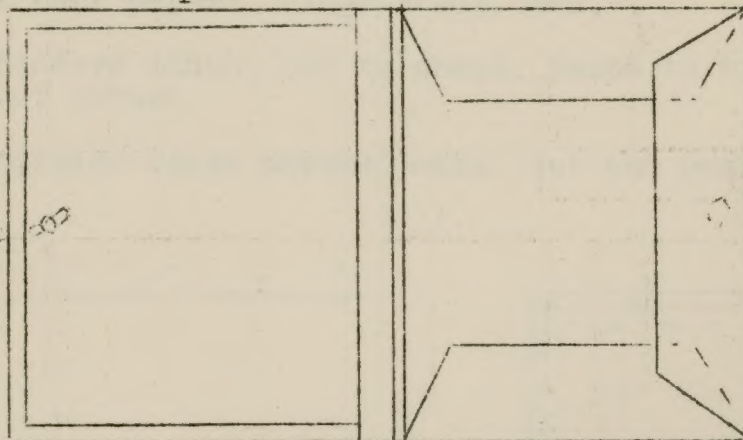
(Case Binding)

MATERIAL:

Book boards, Pulpboard 10" x 13" - 2 pieces.
Kraft Cover Paper 10" x 15" - 2 pieces
Lining Paper 9" x 12" - 2 pieces.
Manilla - piece 9" x 12" 1 piece 4½" x 12".
Binders Linen 3" x 14" & outside paper stiffener inside.

PROCEDURE:

1. Cut boards and hinge strip.
2. Cut book linen and glue in place.
3. Paste in Hinge Stiffener.
4. Mark, cut and paste on outside cover.
5. Punch and put in eyelets.
6. Cut and paste in flaps.
7. Line
inside.
8. Attach
strings &
finish.



MANUAL ARTS

Group 5. Project 2.

GRADE VI.

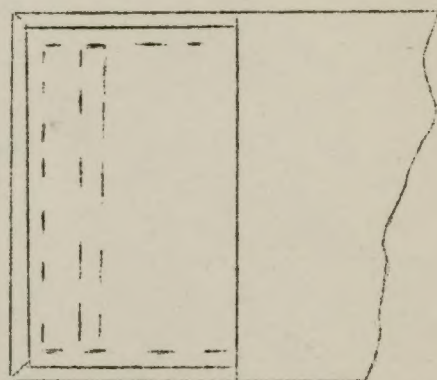
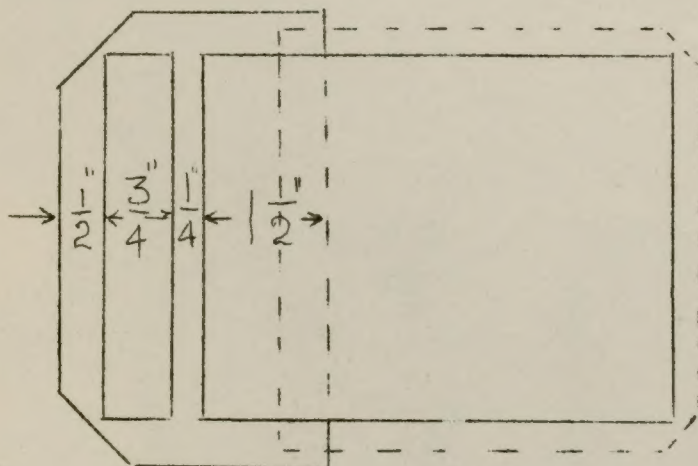
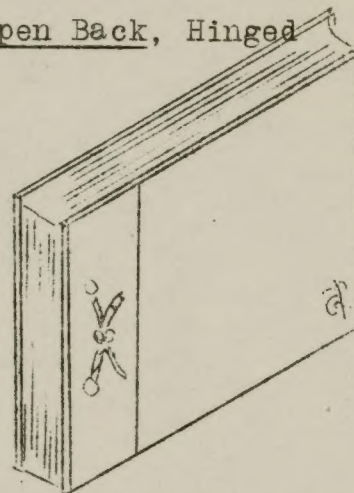
LOOSE LEAF BOOK. - Open Back, Hinged

MATERIAL:

Heavy pulpboard 9" x 12".
Cover paper 9" x 12"
Lining paper 9" x 12".
Binders Linen 3" x 14" and $2\frac{1}{2}$ " x 2"
10 sheets 9" x 12" Cartridge
Drawing Paper.

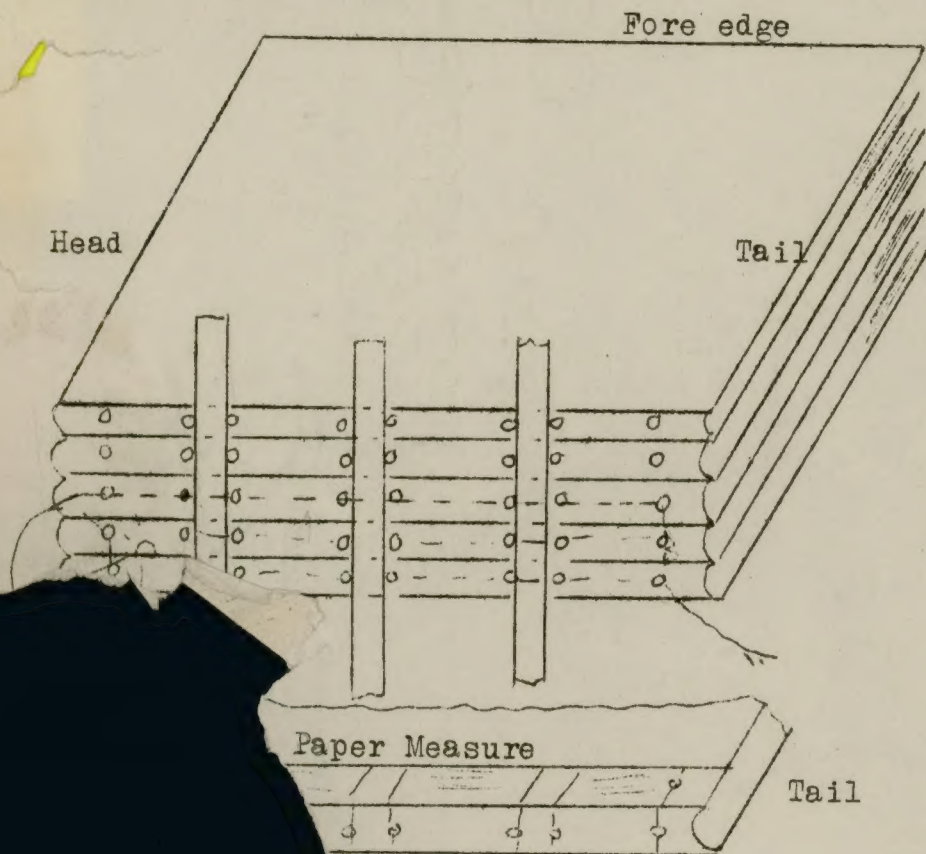
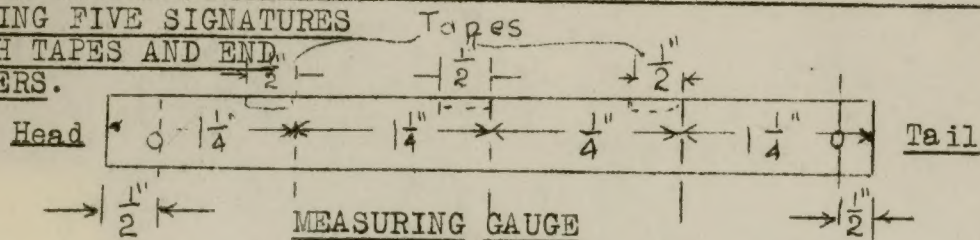
PROCEDURE:

1. Fold and cut drawing paper to size, punch holes with Shannon punch or hand punch ready for book.
2. From size of paper obtain board size with allowance to cover $\frac{1}{8}$ " over back papers, hinge strip, etc.
3. Prepare Binders Linen, cut to shape, paste to hinge strip and body of cover.
4. Prepare outside cover papers, mark, cut and paste in place.



5. Prepare inside lining paper, mark, cut and paste in place.
6. Mark eyelet holes, punch and fix eyelets.
7. String and tie.

AVING FIVE SIGNATURES
H TAPES AND END
PAPERS.



uge using a strip of paper 1" wide the
book you are making. Fold into four
tch.

or kettle stitches. Mark off width
ad of the book.

signatures piled together and mark
kettle stitches.

ches with small awl. (A nail driven
and filed sharp will do).

sheet A.

MANUAL ARTS

Group 5. Project 3a.

GRADE VI.

BOOK OF 5 SIGNATURES WITH BOARD COVERS

With end papers A.

MATERIAL:

5 sheets book paper 18" x 24" folded to $4\frac{1}{2}$ " x 6" sufficient to make desired book.

Book Binders Linen 3" x 7".

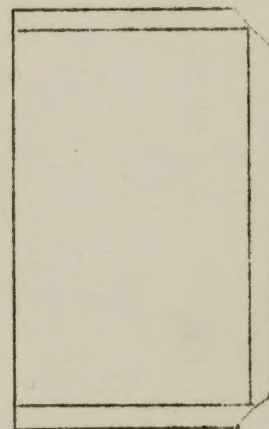
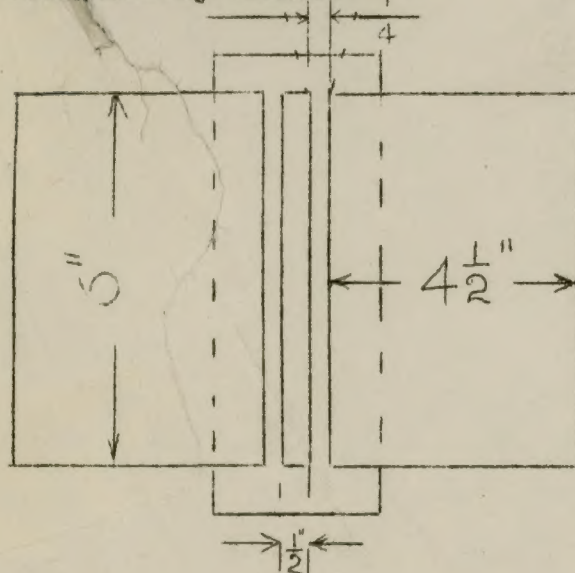
Cover Paper - 2 pieces 6" x 9".

Thread and needles.

Lining paper.

PROCEDURE:

1. Fold paper to size, punch and sew signatures together using kettle stitch.
2. Obtain thickness of book and from size of signature decide sizes for book cover; an allowance of $\frac{1}{8}$ " all round is sufficient.
3. Cut boards and back strip, mark out, paste linen and glue together.
4. Paste covers and attach to boards. Mitre corners and turn down neatly inside.



5. Stiffen hinge with linen, scrim, or paper as directed.
6. Fit signatures in place and paste down the two inside leaves to cover. (Or use end papers)